

Table 3 - Technical Report
Default Parameters for Figures 4, 5, and 7

Symbol	Definition (units)	Default	Reference
BW	body weight (kg) (aggregate resident)**	51.9	Derived from data collected during the Third National Health and Nutrition Survey (NHANES III)
	body weight (kg) (child)*	16.8	
	body weight (kg) (adult/worker)	76.1	
IRo	ingestion rate, oral (mg/day) (aggregate resident)	120	Derived from equation using child and adult ingestion rates (Technical Report, page 11)
	ingestion rate, oral (mg/day) (child)	200	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
	ingestion rate, oral (mg/day) (worker)	50	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
EF	exposure frequency (days/yr) (aggregate resident)	350	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
	exposure frequency (days/yr) (child)	350	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
	exposure frequency (days/yr) (worker)	250	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
ED	exposure duration (years) (aggregate resident)	30	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
	exposure duration (years) (child)	6	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
	exposure duration (years) (worker)	25	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
SA	surface area exposed (cm ² /day) (aggregate resident)	4810	Derived based on data from the Exposure Factors Handbook, USEPA 1989b (EPA/600/8-89/043) (See Appendix A)
	surface area exposed (cm ² /day) (child)	2960	Derived based on data from the Exposure Factors Handbook, USEPA 1989b (EPA/600/8-89/043) (See Appendix A)
	surface area exposed (cm ² /day) (worker)	3500	Derived based on data in Dermal Exposure Assessment: Principles and Applications, USEPA 1992 (EPA/600/8-91/011B)
AF	adherence factor (mg/cm ²) (aggregate resident)	0.1	Selected from range of values in Dermal Exposure Assessment: Principles and Applications, USEPA 1992 (EPA/600/8-91/011B)
	adherence factor (mg/cm ²) (worker and child)	0.2	Selected from range of values in Dermal Exposure Assessment: Principles and Applications, USEPA 1992 (EPA/600/8-91/011B)
AT	averaging time (days) (carcinogens)	25550 (70 years)	RAGS (part A), USEPA 1989a (EPA/540/1-89/002)
	averaging time (days) (non-carcinogens) (aggregate resident)	10950 (30 years)	RAGS (part A), USEPA 1989a (EPA/540/1-89/002) (AT=ED)
	averaging time (days) (non-carcinogens) (child)	2190 (6 years)	RAGS (part A), USEPA 1989a (EPA/540/1-89/002) (AT=ED)
	averaging time (days) (non-carcinogens) (worker)	9125 (25 years)	RAGS (part A), USEPA 1989a (EPA/540/1-89/002) (AT=ED)
DA	dermal absorption (unitless) (organics)	0.01	USEPA Region IV Guidance
	dermal absorption (unitless) (inorganics)	0.001	USEPA Region IV Guidance
IRi	inhalation rate (m ³ /day) (aggregate resident)	12.2	Derived based on data from the Exposure Factors Handbook, USEPA 1989b (EPA/600/8-89/043) (See Appendix A)
	inhalation rate (m ³ /day) (child)	8.1	RAGS (part A), USEPA 1989a (EPA/540/1-89/002)
	inhalation rate (m ³ /day) (worker)	20	Exposure Factors, USEPA 1991 (OSWER No. 9285.6-03)
VF	volatilization factor (m ³ /kg)	chemical-	Soil Screening Guidance, USEPA 1996b

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Symbol	Definition (units)	Default	Reference
		specific	(EPA/540/R-95/128) (See Fig. 4)
PEF	particulate emission factor (m ³ /kg)	1.24 x 10 ⁹	Soil Screening Guidance, USEPA 1996b (EPA/540/R-95/128) (See Fig. 3)
TR	target cancer risk (unitless)	10 ⁻⁶	Per Section 376.81, F.S.
THI	target hazard index (unitless)	1	Per Section 376.81, F.S.

*Child: Age 1-6 years **Aggregate Resident: Age 1-30 years PEF: The default is for 0.5 acre sites with undisturbed soil. Site-specific PEFs must be calculated for sites with contaminated areas which are significantly larger in size or if warranted based on site-specific conditions.

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Acenaphthene	83-32-9	93.4	1.0242	4.240E+00	2.58E+03	1.550E-04	4.210E-02	7.690E-06	1.550E+01	9.169E-07	1.624E+05	7.264E+04	1.483E+05
		SCDM	SCDM	SCDM	HSDB	SCDM	CHEM8	CHEM8					
Acenaphthylene	208-96-8	92.5	0.8987	1.610E+01	3.10E+03	1.130E-04	4.387E-02	7.530E-06	1.860E+01	5.816E-07	2.039E+05	9.121E+04	1.862E+05
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acephate	30560-19-1	85.4	1.35	7.300E+05	4.00E+00	5.000E-13	3.072E-02	7.976E-06	2.400E-02	4.083E-07	2.434E+05	1.089E+05	2.222E+05
		HSDB-GeoMean	Mackay	HSDB-GeoMean	HSDB-GeoMean	HSDB	Calculated	Calculated					
Acetone	67-64-1	-94.8	0.7899	1.000E+06	6.00E-01	3.880E-05	1.240E-01	1.140E-05	3.600E-03	1.018E-04	1.541E+04	6.893E+03	1.407E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acetonitrile	75-05-8	-43.8	0.7857	1.000E+06	4.65E-01	3.460E-05	1.280E-01	1.660E-05	2.790E-03	9.489E-05	1.597E+04	7.141E+03	1.458E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acetophenone	98-86-2	20	1.0281	6.130E+03	4.10E+01	1.070E-05	6.000E-02	8.730E-06	2.460E-01	4.212E-06	7.578E+04	3.389E+04	6.918E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acrolein	107-02-8	-87.7	0.84	2.130E+05	1.00E+00	1.220E-04	1.050E-01	1.220E-05	6.000E-03	2.624E-04	9.602E+03	4.294E+03	8.766E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acrylamide	79-06-1	84.5	1.122	6.400E+05	1.15E-01	1.000E-09	9.700E-02	1.060E-05	6.900E-04	6.704E-07	1.900E+05	8.495E+04	1.734E+05
		SCDM	HSDB	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Acrylonitrile	107-13-1	-83.5	0.806	7.400E+04	1.75E+00	1.030E-04	1.220E-01	1.340E-05	1.050E-02	2.474E-04	9.889E+03	4.422E+03	9.027E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Alachlor	15972-60-8	40	1.1333	1.830E+02	1.51E+02	2.000E-09	2.011E-02	5.692E-06	9.060E-01	3.601E-08	8.197E+05	3.666E+05	7.483E+05
		HSDB	HSDB	HSDB-GeoMean	HSDB-GeoMean	HSDB-GeoMean	Calculated	Calculated					
Aldicarb [or Temik]	116-06-3	99	1.195	6.030E+03	1.25E+01	1.440E-09	3.050E-02	7.190E-06	7.500E-02	2.614E-07	3.042E+05	1.361E+05	2.777E+05
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Aldrin	309-00-2	104	1.6	1.800E-01	2.45E+06	1.700E-04	1.320E-02	4.860E-06	1.470E+04	3.355E-10	8.491E+06	3.797E+06	7.751E+06
		SCDM	HSDB	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Allyl alcohol	107-18-6	-129	0.854	1.000E+06	1.45E+00	5.600E-06	1.140E-01	1.140E-05	8.700E-03	1.349E-05	4.235E+04	1.894E+04	3.866E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Aluminum	7429-90-5	660.37	2.702	0.000	NA	NA	4.683E-01	3.816E-05	1.500E+03	1.615E-10	#	#	#
		SCDM	SCDM	ATSDR			Calculated	Calculated	SCDM				
Aluminum phosphide	20859-73-8	1000	2.4	0.000	NA	NA	2.606E-01	2.247E-05	0.000	1.426E-06	#	#	#
		ATSDR	SCDM	ATSDR			Calculated	Calculated					
Ametryn	834-12-8	88.5	1.19	2.090E+02	2.09E+02	2.400E-09	2.980E-02	4.960E-06	1.254E+00	2.337E-08	1.017E+06	4.550E+05	9.288E+05
		HSDB-GeoMean	HSDB	HSDB	HSDB	HSDB	CHEM8	CHEM8					
Ammonia	7664-41-7	-77.7	0.771	5.300E+05	NA	3.200E-04	4.455E-01	2.370E-05	9.900E+00	3.115E-05	2.787E+04	1.246E+04	2.544E+04
		SCDM	HSDB	SCDM		SCDM	Calculated	Calculated	SCDM				

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Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Ammonia (as total)	7664-41-7	-77.7 SCDM	0.771 HSDB	5.300E+05 SCDM	NA	3.200E-04 SCDM	4.455E-01 Calculated	2.370E-05 Calculated	9.900E+00 SCDM	3.115E-05	2.787E+04	1.246E+04	2.544E+04
Aniline	62-53-3	-6 SCDM	1.0217 SCDM	3.600E+04 SCDM	9.00E+00 SCDM	1.900E-06 SCDM	7.000E-02 CHEM8	8.300E-06 CHEM8	5.400E-02	2.228E-06	1.042E+05	4.660E+04	9.511E+04
Anthracene	120-12-7	215 SCDM	1.28 SCDM	4.340E-02 SCDM	2.95E+04 SCDM	6.500E-05 SCDM	3.240E-02 CHEM8	7.740E-06 CHEM8	1.770E+02	2.625E-08	9.599E+05	4.293E+05	8.763E+05
Antimony	7440-36-0	630.5 SCDM	6.684 SCDM	0.000 HSDB	NA	NA	2.887E-02 Calculated	2.661E-05 Calculated	4.500E+01 SCDM	3.745E-09	#	#	#
Arsenic	7440-38-2	817 HSDB	5.727 SCDM	0.000 HSDB	NA	NA	2.952E-01 Calculated	3.245E-05 Calculated	2.900E+01 SSG	7.080E-09	#	#	#
Atrazine	1912-24-9	173 SCDM	1.23 HSDB	7.000E+01 SCDM	4.05E+02 SCDM	2.960E-09 HSDB	2.585E-02 Calculated	6.838E-06 Calculated	2.430E+00	1.722E-08	1.185E+06	5.300E+05	1.082E+06
Azobenzene	103-33-3	68 HSDB	1.203 HSDB	6.400E+00 HSDB	2.58E+03 HSDB-GeoMean	1.350E-05 HSDB	3.257E-02 Calculated	7.466E-06 Calculated	1.548E+01	6.469E-08	6.115E+05	2.735E+05	5.583E+05
Barium	7440-39-3	725 SCDM	3.51 SCDM	0.000 ATSDR	NA	NA	3.066E-02 Calculated	1.682E-05 Calculated	4.100E+01 SCDM	2.598E-09	#	#	#
Bayleton	43121-43-3	82 HSDB	1.22 HSDB	1.360E+02 HSDB-GeoMean	4.70E+02 HSDB-GeoMean	8.110E-11 HSDB	1.743E-02 Calculated	5.653E-06 Calculated	2.820E+00	1.229E-08	1.403E+06	6.274E+05	1.281E+06
Benomyl	17804-35-2	138.5 MacKay	1.2582 Calculated	3.800E+00 HSDB	2.10E+03 HSDB	3.720E-10 Howard&Meylan	1.743E-02 Calculated	5.799E-06 Calculated	1.260E+01	2.900E-09	2.888E+06	1.292E+06	2.637E+06
Bentazon	25057-89-0	138 HSDB-GeoMean	1.47 HSDB	5.340E+02 HSDB-GeoMean	4.84E+01 HSDB-GeoMean	2.200E-09 HSDB	2.070E-02 Calculated	7.132E-06 Calculated	2.904E-01	1.162E-07	4.562E+05	2.040E+05	4.165E+05
Benzaldehyde	100-52-7	-26 HSDB	1.05 HSDB	3.000E+03 HSDB	7.14E+01 HSDB-GeoMean	2.670E-05 HSDB	7.300E-02 CHEM8	9.070E-06 CHEM8	4.284E-01	8.163E-06	5.444E+04	2.435E+04	4.969E+04
Benzene	71-43-2	5.5 SCDM	0.8765 SCDM	1.750E+03 SCDM	5.90E+01 SCDM	5.550E-03 SCDM	8.800E-02 CHEM8	9.800E-06 CHEM8	3.540E-01	2.146E-03	3.357E+03	1.501E+03	3.065E+03
Benzenethiol	108-98-5	-14.8 HSDB	1.0728 HSDB	8.360E+02 HSDB	2.46E+02 HSDB-GeoMean	3.500E-04 HSDB	6.743E-02 Calculated	9.426E-06 Calculated	1.476E+00	3.269E-05	2.720E+04	1.217E+04	2.483E+04
Benzo(a)anthracene	56-55-3	84 SCDM	1.274 ATSDR	9.400E-03 SCDM	4.00E+05 SCDM	3.350E-06 SCDM	5.100E-02 CHEM8	9.000E-06 CHEM8	2.400E+03	1.793E-10	1.162E+07	5.195E+06	1.060E+07
Benzo(a)pyrene	50-32-8	176.5 SCDM	1.351 HSDB	1.620E-03 SCDM	1.00E+06 SCDM	1.130E-06 SCDM	4.300E-02 CHEM8	9.000E-06 CHEM8	6.000E+03	2.721E-11	2.982E+07	1.333E+07	2.722E+07
Benzo(b)fluoranthene	205-99-2	168 SCDM	1.351 Surrogate (a)	1.500E-03 SCDM	1.25E+06 SCDM	1.110E-04 SCDM	2.260E-02 CHEM8	5.560E-06 CHEM8	7.500E+03	7.353E-10	5.736E+06	2.565E+06	5.236E+06

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	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Benzo(g,h,i)perylene	191-24-2	277 HSDB	1.283 Calculated	2.600E-04 SCDM	3.85E+06 SCDM	1.410E-07 SCDM	1.840E-02 Calculated	6.044E-06 Calculated	2.310E+04 SCDM	1.906E-12 SCDM	1.126E+08 SCDM	5.038E+07 SCDM	1.028E+08 SCDM
Benzo(k)fluoranthene	207-08-9	217 SCDM	1.351 Surrogate (a)	8.000E-04 SCDM	1.25E+06 SCDM	8.290E-07 SCDM	2.260E-02 CHEM8	5.560E-06 CHEM8	7.500E+03 SCDM	1.016E-11 SCDM	4.879E+07 SCDM	2.182E+07 SCDM	4.454E+07 SCDM
Benzoic acid	65-85-0	122.4 SCDM	1.2659 SCDM	3.500E+03 SCDM	6.00E-01 SCDM	1.540E-06 SCDM	5.360E-02 CHEM8	7.970E-06 CHEM8	3.600E-03 SCDM	2.229E-06 SCDM	1.042E+05 SCDM	4.660E+04 SCDM	9.511E+04 SCDM
Benzotrichloride	98-08-7	-5 HSDB	1.3756 HSDB	1.000E+02 Verschueren	1.20E+03 HSDB	2.600E-04 HSDB	2.750E-02 CHEM8	7.770E-06 CHEM8	7.200E+00 SCDM	2.146E-06 SCDM	1.062E+05 SCDM	4.749E+04 SCDM	9.693E+04 SCDM
Benzyl alcohol	100-51-6	-15.2 SCDM	1.0419 SCDM	4.000E+04 SCDM	1.25E+01 SCDM	3.910E-07 HSDB	7.118E-02 CHEM8	8.970E-06 CHEM8	7.500E-02 SCDM	6.728E-07 SCDM	1.896E+05 SCDM	8.480E+04 SCDM	1.731E+05 SCDM
Benzyl chloride	100-44-7	-45 SCDM	1.1004 SCDM	5.250E+02 SCDM	1.80E+02 SCDM	4.150E-04 SCDM	7.500E-02 CHEM8	7.800E-06 CHEM8	1.080E+00 SCDM	5.750E-05 SCDM	2.051E+04 SCDM	9.173E+03 SCDM	1.872E+04 SCDM
Beryllium	7440-41-7	1278 SCDM	1.8477 SCDM	0.000 HSDB	NA	NA	9.909E-01 Calculated	5.866E-05 Calculated	7.900E+02 SCDM	4.713E-10 SCDM	#	#	#
Bidrin [or Dicrotophos]	141-66-2	-9.9 MacKay	1.216 HSDB	1.000E+06 MacKay	7.32E+01 HSDB-GeoMean	1.200E-12 HSDB	2.296E-02 Calculated	6.414E-06 Calculated	4.392E-01 SCDM	7.552E-08 SCDM	5.660E+05 SCDM	2.531E+05 SCDM	5.167E+05 SCDM
Biphenyl, 1,1- [or Diphenyl]	92-52-4	69 SCDM	1.04 SCDM	6.030E+00 SCDM	8.00E+03 SCDM	3.000E-04 SCDM	4.040E-02 CHEM8	8.150E-06 CHEM8	4.800E+01 SCDM	5.515E-07 SCDM	2.094E+05 SCDM	9.367E+04 SCDM	1.912E+05 SCDM
Bis(2-chloroethyl)ether	111-44-4	-51.9 SCDM	1.22 SCDM	1.720E+04 SCDM	1.55E+01 SCDM	1.800E-05 SCDM	6.920E-02 CHEM8	7.530E-06 CHEM8	9.300E-02 SCDM	1.433E-05 SCDM	4.108E+04 SCDM	1.837E+04 SCDM	3.750E+04 SCDM
Bis(2-chloroisopropyl)ether	108-60-1	-99.3 HSDB-GeoMean	1.1122 HSDB	1.310E+03 SCDM	7.30E+01 HSDB	3.320E-04 Howard	3.668E-02 Calculated	7.397E-06 Calculated	4.380E-01 SCDM	4.929E-05 SCDM	2.215E+04 SCDM	9.908E+03 SCDM	2.022E+04 SCDM
Bis(2-ethylhexyl)phthalate [or DEHP]	117-81-7	-55 SCDM	0.981 SCDM	3.400E-01 SCDM	1.50E+07 SCDM	1.020E-07 SCDM	3.510E-02 CHEM8	3.660E-06 CHEM8	9.000E+04 SCDM	3.450E-13 SCDM	2.648E+08 SCDM	1.184E+08 SCDM	2.417E+08 SCDM
Bisphenol A	80-05-7	152.5 HSDB-GeoMean	1.195 HSDB	1.200E+02 HSDB	6.92E+02 HSDB-GeoMean	1.000E-10 HSDB	2.640E-02 CHEM8	5.730E-06 CHEM8	4.152E+00 SCDM	8.556E-09 SCDM	1.681E+06 SCDM	7.520E+05 SCDM	1.535E+06 SCDM
Boron	7440-42-8	2300 SCDM	2.35 SCDM	0.000 HSDB	NA	NA	9.117E-01 Calculated	6.076E-05 Calculated	3.000E+00 SCDM	1.244E-07 SCDM	#	#	#
Bromacil	314-40-9	158.7 HSDB-GeoMean	1.55 HSDB	8.150E+02 HSDB	6.62E+01 HSDB-GeoMean	5.070E-11 HSDB	2.500E-02 CHEM8	4.560E-06 CHEM8	3.972E-01 SCDM	5.823E-08 SCDM	6.446E+05 SCDM	2.883E+05 SCDM	5.884E+05 SCDM
Bromochloromethane	74-97-5	-86.5 HSDB	1.9344 HSDB	1.670E+04 HSDB	5.40E+01 HSDB-GeoMean	1.500E-03 HSDB	4.740E-02 CHEM8	1.000E-05 CHEM8	3.240E-01 SCDM	3.566E-04 SCDM	8.236E+03 SCDM	3.683E+03 SCDM	7.518E+03 SCDM
Bromodichloromethane	75-27-4	-57 SCDM	1.98 SCDM	6.740E+03 SCDM	5.50E+01 SCDM	1.600E-03 SCDM	2.980E-02 CHEM8	1.060E-05 CHEM8	3.300E-01 SCDM	2.356E-04 SCDM	1.013E+04 SCDM	4.532E+03 SCDM	9.251E+03 SCDM

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Bromoform	75-25-2	8 SCDM	2.899 SCDM	3.100E+03 SCDM	8.50E+01 SCDM	5.350E-04 SCDM	1.490E-02 CHEM8	1.030E-05 CHEM8	5.100E-01	2.846E-05	2.916E+04	1.304E+04	2.662E+04
Bromomethane [or Methyl bromide]	74-83-9	-93.7 SCDM	1.6755 SCDM	1.520E+04 SCDM	1.04E+01 SCDM	6.240E-03 SCDM	7.280E-02 CHEM8	1.210E-05 CHEM8	6.240E-02	4.707E-03	2.267E+03	1.014E+03	2.070E+03
Butanol, 1-	71-36-3	-89.8 SCDM	0.8098 SCDM	7.400E+04 SCDM	7.00E+00 SCDM	8.810E-06 SCDM	8.000E-02 CHEM8	9.300E-06 CHEM8	4.200E-02	1.125E-05	4.637E+04	2.074E+04	4.233E+04
Butanone, 2- [or MEK]	78-93-3	-87 SCDM	0.8054 SCDM	2.230E+05 SCDM	1.90E+00 SCDM	5.690E-05 SCDM	8.080E-02 CHEM8	9.800E-06 CHEM8	1.140E-02	9.035E-05	1.636E+04	7.318E+03	1.494E+04
Butyl benzyl phthalate, n-	85-68-7	-35 HSDB	1.117 HSDB-GeoMean	2.690E+00 SCDM	5.50E+04 SCDM	1.260E-06 SCDM	1.681E-02 Calculated	5.168E-06 Calculated	3.300E+02	2.395E-10	1.005E+07	4.495E+06	9.174E+06
Butylate	2008-41-5	-9.99 HSDB est.	0.9402 HSDB	4.400E+01 HSDB	2.68E+02 HSDB-GeoMean	8.450E-06 HSDB	2.897E-02 Calculated	5.792E-06 Calculated	1.608E+00	3.346E-07	2.689E+05	1.203E+05	2.455E+05
Butylphthalyl butylglycolate	85-70-1	-35 HSDB	1.097 HSDB	1.200E+02 HSDB	1.50E+04 HSDB	2.060E-08 HSDB	1.544E-02 Calculated	4.890E-06 Calculated	9.000E+01	3.522E-10	8.288E+06	3.706E+06	7.566E+06
Cadmium	7440-43-9	321 SCDM	8.65 SCDM	0.000 HSDB	NA	NA	2.981E-02 Calculated	3.258E-05 Calculated	7.500E+01 SCDM	2.754E-09	#	#	#
Calcium cyanide	592-01-8	640 HSDB	1.853 HSDB	7.160E+04 ATSDR	NA	NA	1.719E-01 Calculated	1.457E-05 Calculated	0.000	9.248E-07	#	#	#
Captan	133-06-2	172.5 SCDM	1.74 SCDM	3.300E+00 SCDM	2.55E+02 SCDM	7.190E-06 SCDM	1.810E-02 CHEM8	5.000E-06 CHEM8	1.530E+00	1.939E-07	3.533E+05	1.580E+05	3.225E+05
Carbaryl [or Sevin]	63-25-2	145 SCDM	1.2282 SCDM	1.040E+02 SCDM	2.10E+02 SCDM	3.460E-09 SCDM	2.780E-02 CHEM8	7.130E-06 CHEM8	1.260E+00	3.344E-08	8.506E+05	3.804E+05	7.765E+05
Carbazole	86-74-8	246.2 SCDM	1.1 HSDB	7.480E+00 SCDM	3.40E+03 SCDM	1.530E-08 SCDM	3.799E-02 Calculated	7.450E-06 Calculated	2.040E+01	2.369E-09	3.196E+06	1.429E+06	2.917E+06
Carbofuran	1563-66-2	151 SCDM	1.18 SCDM	3.200E+02 SCDM	3.85E+01 SCDM	9.200E-05 SCDM	2.548E-02 Calculated	6.568E-06 Calculated	2.310E-01	1.556E-05	3.942E+04	1.763E+04	3.599E+04
Carbon disulfide	75-15-0	-115 SCDM	1.2632 SCDM	1.190E+03 SCDM	4.57E+01 SCDM	3.030E-02 SCDM	1.040E-01 CHEM8	1.000E-05 CHEM8	2.742E-01	1.130E-02	1.463E+03	6.545E+02	1.336E+03
Carbon tetrachloride	56-23-5	-23 SCDM	1.594 SCDM	7.930E+02 SCDM	1.75E+02 SCDM	3.040E-02 SCDM	7.800E-02 CHEM8	8.800E-06 CHEM8	1.050E+00	3.737E-03	2.544E+03	1.138E+03	2.323E+03
Carbophenothion [or Trithion]	786-19-6	-9.99 HSDB est.	1.271 SCDM	3.650E-02 SCDM	3.65E+05 SCDM	2.150E-07 HSDB	1.405E-02 Calculated	5.281E-06 Calculated	2.190E+03	1.832E-11	3.634E+07	1.625E+07	3.317E+07
Chlordane	57-74-9	106 SCDM	1.6 SCDM	5.600E-02 SCDM	1.20E+05 SCDM	4.860E-05 SCDM	1.180E-02 CHEM8	4.370E-06 CHEM8	7.200E+02	1.778E-09	3.689E+06	1.650E+06	3.367E+06

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Chlorine	7782-50-5	-105.5 HSDB	1.4085 HSDB	5.700E+03 HSDB	NA	NA	1.852E-01 Calculated	1.446E-05 Calculated	0.000	9.178E-07	#	#	#
Chlorine cyanide [or Cyanogen chloride]	506-77-4	-6.5 SCDM	1.186 SCDM	8.500E+04 Verschueren	4.95E+03 SCDM	9.515E-04 Calculated	1.917E-01 Calculated	1.421E-05 Calculated	2.970E+01	1.337E-05	4.253E+04	1.902E+04	3.883E+04
Chloro-1,3-butadiene [or Chloroprene]	126-99-8	-130 SCDM	0.956 SCDM	1.740E+03 SCDM	1.10E+02 SCDM	3.200E-02 HSDB	1.040E-01 CHEM8	1.050E-05 CHEM8	6.600E-01	7.209E-03	1.832E+03	8.192E+02	1.672E+03
Chloroacetic acid	79-11-8	50 HSDB	1.4043 HSDB	6.140E+06 HSDB	3.00E+01 HSDB	1.300E-09 HSDB	7.330E-02 CHEM8	1.210E-05 CHEM8	1.800E-01	2.751E-07	2.966E+05	1.326E+05	2.707E+05
Chloroaniline, 4-	106-47-8	72.5 SCDM	1.429 SCDM	5.300E+03 SCDM	6.50E+01 SCDM	3.310E-07 SCDM	4.830E-02 CHEM8	1.010E-05 SCDM	3.900E-01	2.021E-07	3.460E+05	1.547E+05	3.158E+05
Chlorobenzene	108-90-7	-45.2 SCDM	1.1058 SCDM	4.720E+02 SCDM	2.19E+02 SCDM	3.700E-03 SCDM	7.300E-02 CHEM8	8.700E-06 CHEM8	1.314E+00	4.090E-04	7.691E+03	3.439E+03	7.021E+03
Chlorobenzilate	510-15-6	37 SCDM	1.2816 SCDM	1.110E+01 SCDM	2.00E+04 SCDM	7.240E-08 HSDB	1.409E-02 CHEM8	5.800E-06 CHEM8	1.200E+02	3.251E-10	8.626E+06	3.858E+06	7.874E+06
Chloroethane [or Ethyl chloride]	75-00-3	-138.7 SCDM	0.8902 SCDM	5.680E+03 SCDM	1.60E+01 SCDM	8.820E-03 SCDM	2.710E-01 CHEM8	1.150E-05 CHEM8	9.600E-02	1.974E-02	1.107E+03	4.950E+02	1.010E+03
Chloroform	67-66-3	-63.6 SCDM	1.4832 SCDM	7.920E+03 SCDM	3.98E+01 SCDM	3.670E-03 SCDM	1.040E-01 CHEM8	1.000E-05 CHEM8	2.388E-01	2.270E-03	3.264E+03	1.460E+03	2.980E+03
Chloro-m-cresol, p- [or 4-chloro-3-methylphenol]	59-50-7	67 HSDB-GeoMean	1.2674 Calculated	3.800E+03 SCDM	5.00E+01 HSDB	3.990E-07 SCDM	4.415E-02 Calculated	8.925E-06 Calculated	3.000E-01	2.378E-07	3.189E+05	1.426E+05	2.911E+05
Chloromethane	74-87-3	-97.7 SCDM	0.911 SCDM	5.330E+03 SCDM	6.30E+00 SCDM	8.820E-03 SCDM	1.997E-01 Calculated	1.365E-05 Calculated	3.780E-02	1.866E-02	1.139E+03	5.093E+02	1.040E+03
Chloronaphthalene, beta-	91-58-7	61 SCDM	1.1377 SCDM	1.170E+01 SCDM	1.15E+04 SCDM	3.140E-04 SCDM	3.470E-02 CHEM8	8.790E-06 CHEM8	6.900E+01	3.452E-07	2.647E+05	1.184E+05	2.417E+05
Chloronitrobenzene, p-	100-00-5	83 HSDB	1.52 HSDB	3.190E+02 HSDB-GeoMean	2.68E+02 HSDB-GeoMean	3.600E-05 HSDB	3.490E-02 CHEM8	9.420E-06 CHEM8	1.608E+00	1.642E-06	1.214E+05	5.429E+04	1.108E+05
Chlorophenol, 2-	95-57-8	9.8 SCDM	1.2634 SCDM	2.200E+04 SCDM	3.88E+02 SCDM	3.910E-04 SCDM	5.010E-02 CHEM8	9.460E-06 CHEM8	2.328E+00	1.763E-05	3.705E+04	1.657E+04	3.382E+04
Chlorophenol, 3-	108-43-0	32.6 HSDB	1.268 HSDB	2.500E+04 HSDB	3.50E+02 HSDB	8.500E-07 HSDB	5.050E-02 CHEM8	9.370E-06 CHEM8	2.100E+00	6.966E-08	5.893E+05	2.636E+05	5.380E+05
Chlorophenol, 4-	106-48-9	42.7 HSDB	1.2238 HSDB	2.600E+04 HSDB	7.05E+01 HSDB	5.920E-07 HSDB	4.930E-02 CHEM8	9.680E-06 CHEM8	4.230E-01	2.394E-07	3.179E+05	1.422E+05	2.902E+05
Chlorothalonil [or Bravo]	1897-45-6	250.5 HSDB-GeoMean	1.7 HSDB	6.000E-01 HSDB	1.80E+03 HSDB	2.000E-07 HSDB	1.700E-02 Calculated	7.324E-06 Calculated	1.080E+01	4.946E-09	2.211E+06	9.890E+05	2.019E+06

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Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Chlorotoluene, o-	95-49-8	-35.6 HSDB	1.0826 HSDB	3.740E+02 HSDB	3.87E+02 CHEM8	3.570E-03 HSDB	5.500E-02 CHEM8	8.650E-06 CHEM8	2.322E+00	1.751E-04	1.175E+04	5.257E+03	1.073E+04
Chlorotoluene, p-	106-43-4	7.5 HSDB	1.0697 HSDB	1.060E+02 HSDB	3.40E+02 HSDB	4.400E-03 HSDB	5.500E-02 HSDB	8.650E-06 CHEM8	2.040E+00	2.432E-04	9.974E+03	4.461E+03	9.105E+03
Chlorpropham	101-21-3	40.9 HSDB-GeoMean	1.18 HSDB	1.080E+02 HSDB	8.16E+02 HSDB	2.500E-08 HSDB	2.666E-02 Calculated	6.707E-06 Calculated	4.896E+00	8.814E-09	1.657E+06	7.409E+05	1.512E+06
Chlorpyrifos	2921-88-2	42 SCDM	1.398 HSDB	1.120E+00 SCDM	1.74E+04 SCDM	1.230E-05 HSDB	1.305E-02 Calculated	5.517E-06 Calculated	1.044E+02	3.691E-09	2.560E+06	1.145E+06	2.337E+06
Chromium (hexavalent)	18540-29-9	1900 SCDM	7.1 SCDM	0.000 ATSDR	NA	NA	3.978E-01 Calculated	4.596E-05 Calculated	1.900E+01 SCDM	1.528E-08	#	#	#
Chromium (total)	NOCAS#	999					0.000E+00 Calculated	0.000E+00 Calculated			#	#	#
Chrysene	218-01-9	258.2 SCDM	1.274 SCDM	1.600E-03 SCDM	4.00E+05 SCDM	9.460E-05 SCDM	2.480E-02 CHEM8	6.210E-06 CHEM8	2.400E+03	2.152E-09	3.353E+06	1.500E+06	3.061E+06
Cobalt	7440-48-4	1493 SCDM	8.92 SCDM	0.000 HSDB	NA	NA	3.925E-01 Calculated	4.890E-05 Calculated	4.500E+01 SCDM	6.883E-09	#	#	#
Copper	7440-50-8	1083 SCDM	8.94 SCDM	0.000 HSDB	NA	NA	3.748E-01 Calculated	4.680E-05 Calculated	4.300E+02 SCDM	6.907E-10	#	#	#
Coumaphos	56-72-4	91 HSDB	1.47 HSDB	1.500E+00 HSDB	4.23E+03 HSDB	3.200E-08 HSDB	1.221E-02 Calculated	5.570E-06 Calculated	2.538E+01	1.421E-09	4.126E+06	1.845E+06	3.766E+06
Crotonaldehyde	123-73-9	-76 HSDB	0.869 HSDB	1.560E+05 HSDB	6.20E+00 HSDB	1.940E-05 HSDB	9.030E-02 CHEM8	1.020E-05 CHEM8	3.720E-02	2.833E-05	2.922E+04	1.307E+04	2.668E+04
Cumene [or Isopropyl benzene]	98-82-8	-96 SCDM	0.8618 SCDM	6.130E+01 SCDM	3.30E+03 SCDM	1.160E+00 SCDM	6.500E-02 CHEM8	7.100E-06 CHEM8	1.980E+01	5.698E-03	2.060E+03	9.215E+02	1.881E+03
Cyanide	57-12-5	634 HSDB	1.553 HSDB	5.000E+05 HSDB	NA	NA	2.507E-01 Calculated	1.913E-05 Calculated	9.900E+00 SCDM	1.214E-08	#	#	#
Cyanogen	460-19-5	-27.9 SCDM	0.9537 SCDM	8.500E+03 SCDM	4.95E+03 SCDM	5.400E-03 HSDB	2.030E-01 CHEM8	1.370E-05 CHEM8	2.970E+01	8.024E-05	1.736E+04	7.765E+03	1.585E+04
Cycloate	1134-23-2	11.5 HSDB	1.016 HSDB	7.500E+01 HSDB	3.82E+02 HSDB-GeoMean	6.700E-06 HSDB	2.828E-02 Calculated	6.102E-06 Calculated	2.292E+00	1.892E-07	3.576E+05	1.599E+05	3.264E+05
Cyclohexanone	108-94-1	-31 SCDM	0.9478 SCDM	5.000E+03 SCDM	6.50E+00 SCDM	8.410E-06 SCDM	7.840E-02 CHEM8	8.620E-06 CHEM8	3.900E-02	1.075E-05	4.744E+04	2.121E+04	4.330E+04
Cymene, p	99-87-6	-68 Verschueren	0.86 Verschueren	2.340E+01 Howard&Meylan	4.05E+03 Calculated	1.100E-02 Howard&Meylan	5.600E-02 CHEM8	7.330E-06 CHEM8	2.429E+01	5.497E-05	2.098E+04	9.382E+03	1.915E+04

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Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Cypermethrin	52315-07-8 HSDB-GeoMean	69.3 MacKay	1.24 HSDB	1.000E-02 HSDB	2.50E+05 HSDB	1.920E-07 HSDB	1.114E-02 Calculated	4.631E-06 Calculated	1.500E+03 Calculated	2.271E-11 Calculated	3.264E+07 Calculated	1.460E+07 Calculated	2.979E+07 Calculated
DDD, 4,4'-	72-54-8 SCDM	109.5 HSDB	1.385 SCDM	9.000E-02 SCDM	1.00E+06 SCDM	4.000E-06 SCDM	1.472E-02 Calculated	5.795E-06 Calculated	6.000E+03 Calculated	2.756E-11 Calculated	2.962E+07 Calculated	1.325E+07 Calculated	2.704E+07 Calculated
DDE, 4,4'-	72-55-9 SCDM	89 CHEM8	1.41 SCDM	1.200E-01 SCDM	4.40E+06 SCDM	2.100E-05 SCDM	1.440E-02 CHEM8	5.870E-06 CHEM8	2.640E+04 CHEM8	2.643E-11 CHEM8	3.025E+07 CHEM8	1.353E+07 CHEM8	2.762E+07 CHEM8
DDT, 4,4'-	50-29-3 SCDM	108.5 HSDB	0.985 SCDM	2.500E-02 SCDM	2.65E+06 SCDM	8.100E-06 SCDM	1.370E-02 CHEM8	4.950E-06 CHEM8	1.590E+04 CHEM8	1.722E-11 CHEM8	3.748E+07 CHEM8	1.676E+07 CHEM8	3.421E+07 CHEM8
Diallate	2303-16-4 HSDB-GeoMean	27.4 HSDB	1.188 SCDM	4.000E+01 SCDM	2.60E+04 SCDM	3.800E-06 HSDB	1.963E-02 Calculated	5.850E-06 Calculated	1.560E+02 Calculated	1.282E-09 Calculated	4.344E+06 Calculated	1.943E+06 Calculated	3.966E+06 Calculated
Diazinon	333-41-5 HSDB est.	-9.99 SCDM	1.1088 SCDM	4.000E+01 SCDM	5.35E+02 SCDM	1.400E-06 HSDB	2.060E-02 CHEM8	4.160E-06 CHEM8	3.210E+00 CHEM8	2.701E-08 CHEM8	9.464E+05 CHEM8	4.232E+05 CHEM8	8.639E+05 CHEM8
Dibenz(a,h)anthracene	53-70-3 SCDM	269.5 HSDB	1.282 SCDM	2.490E-03 SCDM	3.75E+06 SCDM	1.470E-08 SCDM	1.824E-02 Calculated	6.015E-06 Calculated	2.250E+04 Calculated	1.723E-12 Calculated	1.185E+08 Calculated	5.299E+07 Calculated	1.082E+08 Calculated
Dibenzofuran	132-64-9 SCDM	86.5 SCDM	1.0886 SCDM	1.000E+01 SCDM	1.35E+04 SCDM	1.260E-05 SCDM	2.670E-02 CHEM8	6.000E-06 CHEM8	8.100E+01 CHEM8	9.531E-09 CHEM8	1.593E+06 CHEM8	7.125E+05 CHEM8	1.454E+06 CHEM8
Dibromo-3-chloropropane, 1-2- [or DBCP]	96-12-8 HSDB	5 SCDM	2.093 SCDM	1.230E+03 SCDM	8.50E+01 SCDM	1.470E-04 SCDM	2.120E-02 CHEM8	7.020E-06 CHEM8	5.100E-01 CHEM8	1.121E-05 CHEM8	4.645E+04 CHEM8	2.077E+04 CHEM8	4.240E+04 CHEM8
Dibromochloromethane	124-48-1 SCDM	-20 SCDM	2.451 SCDM	2.600E+03 SCDM	6.30E+01 SCDM	7.830E-04 SCDM	1.960E-02 CHEM8	1.050E-05 CHEM8	3.780E-01 CHEM8	6.939E-05 CHEM8	1.867E+04 CHEM8	8.350E+03 CHEM8	1.704E+04 CHEM8
Dibromoethane, 1,2- [or EDB]	106-93-4 SCDM	9.9 SCDM	2.1791 SCDM	4.180E+03 SCDM	4.26E+01 SCDM	7.430E-04 SCDM	2.870E-02 CHEM8	8.060E-06 CHEM8	2.556E-01 CHEM8	1.290E-04 CHEM8	1.369E+04 CHEM8	6.123E+03 CHEM8	1.250E+04 CHEM8
Dibutyl phthalate	84-74-2 SCDM	-35 SCDM	1.0465 SCDM	1.120E+01 SCDM	1.57E+03 SCDM	9.800E-10 SCDM	4.380E-02 CHEM8	7.860E-06 CHEM8	9.420E+00 CHEM8	5.251E-09 CHEM8	2.146E+06 CHEM8	9.599E+05 CHEM8	1.959E+06 CHEM8
Dicamba	1918-00-9 SCDM	115 SCDM	1.57 SCDM	4.500E+03 SCDM	2.05E+02 SCDM	7.900E-09 SCDM	2.242E-02 Calculated	7.801E-06 Calculated	1.230E+00 Calculated	3.752E-08 Calculated	8.029E+05 Calculated	3.591E+05 Calculated	7.330E+05 Calculated
Dichloroacetic acid	79-43-6 HSDB	13.5 HSDB	1.563 HSDB	1.000E+06 HSDB	7.50E+01 HSDB	6.800E-08 HSDB	4.628E-02 Calculated	1.075E-05 Calculated	4.500E-01 Calculated	1.366E-07 Calculated	4.209E+05 Calculated	1.882E+05 Calculated	3.842E+05 Calculated
Dichloroacetonitrile	3018-12-0 HSDB	NA Howard&Meylan	1.369 Howard&Meylan	3.340E+04 Howard&Meylan	1.28E+01 Howard&Meylan	3.790E-06 Howard&Meylan	6.097E-02 Calculated	1.092E-05 Calculated	7.680E-02 Calculated	3.247E-06 Calculated	8.632E+04 Calculated	3.860E+04 Calculated	7.880E+04 Calculated
Dichlorobenzene, 1,2-	95-50-1 SCDM	-16.7 SCDM	1.3059 SCDM	1.560E+02 SCDM	6.15E+02 SCDM	1.900E-03 SCDM	6.900E-02 CHEM8	7.900E-06 CHEM8	3.690E+00 Calculated	7.528E-05 Calculated	1.793E+04 Calculated	8.017E+03 Calculated	1.636E+04 Calculated
Dichlorobenzene, 1,3-	541-73-1 SCDM	-24.8 SCDM	1.2884 SCDM	1.330E+02 SCDM	7.25E+02 SCDM	3.100E-03 SCDM	4.207E-02 SCDM	8.849E-06 Calculated	4.350E+00 Calculated	6.368E-05 Calculated	1.949E+04 Calculated	8.716E+03 Calculated	1.779E+04 Calculated

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Dichlorobenzene, 1,4-	106-46-7	52.7	1.2475	7.380E+01	6.15E+02	2.400E-03	6.900E-02	7.900E-06	3.690E+00	9.499E-05	1.596E+04	7.137E+03	1.457E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichlorobenzidine, 3,3'-	91-94-1	132.5	1.41	3.110E+00	7.25E+02	4.000E-09	1.940E-02	6.740E-06	4.350E+00	9.653E-09	1.583E+06	7.080E+05	1.445E+06
		SCDM	CHEM8	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichlorodifluoromethane	75-71-8	-158	1.486	2.800E+02	6.15E+01	3.430E-01	5.165E-02	1.084E-05	3.690E-01	1.236E-02	1.399E+03	6.257E+02	1.277E+03
		SCDM	HSDB	SCDM	HSDB	SCDM	Calculated	Calculated					
Dichloroethane, 1,1-	75-34-3	-96.9	1.1757	5.060E+03	3.16E+01	5.620E-03	7.420E-02	1.050E-05	1.896E-01	2.734E-03	2.975E+03	1.330E+03	2.716E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloroethane, 1,2- [or EDC]	107-06-2	-35.5	1.2351	8.520E+03	1.74E+01	9.790E-04	1.040E-01	9.900E-06	1.044E-01	1.049E-03	4.801E+03	2.147E+03	4.383E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloroethene, 1,1-	75-35-4	-122.5	1.213	2.250E+03	5.90E+01	2.610E-02	9.000E-02	1.040E-05	3.540E-01	7.815E-03	1.759E+03	7.868E+02	1.606E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloroethene, cis-1,2-	156-59-2	-80	1.2837	3.500E+03	3.55E+01	4.080E-03	7.360E-02	1.130E-05	2.130E-01	1.903E-03	3.565E+03	1.594E+03	3.255E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloroethene, trans-1,2-	156-60-5	-49.8	1.2565	6.300E+03	5.25E+01	9.380E-03	7.070E-02	1.190E-05	3.150E-01	2.970E-03	2.854E+03	1.276E+03	2.605E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichlorophenol, 2,3-	576-24-9	58	1.383	8.220E+03	4.26E+02	3.100E-07	4.000E-02	7.220E-06	2.556E+00	2.745E-08	9.387E+05	4.198E+05	8.569E+05
		HSDB	Surrogate (b)	ATSDR	HSDB	HSDB	CHEM8	CHEM8					
Dichlorophenol, 2,4-	120-83-2	45	1.383	4.500E+03	1.47E+02	3.160E-06	3.460E-02	8.770E-06	8.820E-01	2.999E-07	2.840E+05	1.270E+05	2.593E+05
		SCDM	HSDB	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichlorophenol, 2,5-	583-78-8	59	1.383	5.000E+05	1.10E+03	3.100E-07	4.000E-02	7.220E-06	6.600E+00	1.088E-08	1.491E+06	6.668E+05	1.361E+06
		HSDB	Surrogate (b)	Merck	HSDB	HSDB	CHEM8	CHEM8					
Dichlorophenol, 2,6-	87-65-0	68.5	1.383	2.650E+03	7.50E+02	2.700E-06	3.468E-02	8.770E-06	4.500E+00	5.657E-08	6.540E+05	2.925E+05	5.970E+05
		HSDB	Surrogate (b)	HSDB	HSDB	HSDB	CHEM8	CHEM8					
Dichlorophenol, 3,4-	95-77-2	68	1.383	9.260E+00	1.50E+03	3.100E-07	3.550E-02	8.679E-06	9.000E+00	8.696E-09	1.668E+06	7.459E+05	1.523E+06
		HSDB	Surrogate (b)	Howard&Meylan	HSDB	HSDB	Calculated	Calculated					
Dichlorophenoxy acetic acid, 2,4-	94-75-7	140.5	1.416	6.770E+02	1.66E+02	1.020E-08	5.880E-02	6.490E-06	9.960E-01	3.879E-08	7.898E+05	3.532E+05	7.210E+05
		SCDM	HSDB	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloropropane, 1,2-	78-87-5	-70	1.159	2.800E+03	4.37E+01	2.800E-03	7.820E-02	8.730E-06	2.622E-01	1.246E-03	4.406E+03	1.971E+03	4.023E+03
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichloropropene, 1,3-	542-75-6	-50	1.22	2.800E+03	4.57E+01	1.770E-02	6.260E-02	1.000E-05	2.742E-01	4.731E-03	2.261E+03	1.011E+03	2.064E+03
		HSDB	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Dichlorprop	120-36-5	117.8	1.42	3.500E+02	8.02E+01	1.220E-08	2.164E-02	7.078E-06	4.811E-01	7.832E-08	5.558E+05	2.485E+05	5.073E+05
		HSDB	HSDB	HSDB	HSDB	HSDB	Calculated	Calculated					

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Dichlorvos	62-73-7	-9.99 HSDB est.	1.415 SCDM	1.000E+04 SCDM	1.62E+01 SCDM	1.500E-03 SCDM	2.315E-02 CHEM8	7.330E-06 CHEM8	9.720E-02	3.634E-04	8.159E+03	3.649E+03	7.448E+03
Dicofol [or Kelthane]	115-32-2	77.5 SCDM	1.13 HSDB	1.320E+00 SCDM	2.95E+03 HSDB	5.590E-10 Howard&Meylan	1.348E-02 Calculated	4.697E-06 Calculated	1.770E+01	1.676E-09	3.799E+06	1.699E+06	3.468E+06
Dieldrin	60-57-1	175.5 SCDM	1.75 SCDM	1.950E-01 SCDM	2.14E+04 SCDM	1.510E-05 SCDM	1.250E-02 CHEM8	4.740E-06 CHEM8	1.284E+02	3.443E-09	2.651E+06	1.185E+06	2.420E+06
Diethylphthalate	84-66-2	-40.5 SCDM	1.232 SCDM	1.080E+03 SCDM	2.85E+02 SCDM	4.500E-07 SCDM	2.484E-02 Calculated	6.350E-06 Calculated	1.710E+00	3.576E-08	8.225E+05	3.678E+05	7.508E+05
Dimethoate	60-51-5	52 SCDM	1.277 SCDM	2.500E+04 SCDM	4.75E+00 SCDM	6.150E-11 SCDM	2.347E-02 Calculated	6.742E-06 Calculated	2.850E-02	3.331E-07	2.695E+05	1.205E+05	2.460E+05
Dimethrin	70-38-2	-9.99 Versch. est.	0.98 HSDB	3.570E-02 Howard&Meylan	3.02E+04 HSDB	7.610E-05 HSDB	1.997E-02 Calculated	5.033E-06 Calculated	1.812E+02	1.849E-08	1.144E+06	5.116E+05	1.044E+06
Dimethylformamide, N,N-	68-12-2	-61 HSDB	0.9445 HSDB	1.000E+06 Howard&Meylan	7.00E+00 HSDB	7.390E-08 HSDB	9.390E-02 CHEM8	1.030E-05 CHEM8	4.200E-02	5.672E-07	2.065E+05	9.236E+04	1.885E+05
Dimethylphenol, 2,4-	105-67-9	24.5 SCDM	0.965 SCDM	7.870E+03 SCDM	2.10E+02 SCDM	2.000E-06 SCDM	5.840E-02 CHEM8	8.690E-06 CHEM8	1.260E+00	2.282E-07	3.256E+05	1.456E+05	2.973E+05
Dimethylphthalate	131-11-3	5.5 SCDM	1.1905 SCDM	4.000E+03 SCDM	3.50E+01 SCDM	1.050E-07 SCDM	5.680E-02 CHEM8	6.290E-06 CHEM8	2.100E-01	1.708E-07	3.763E+05	1.683E+05	3.435E+05
Dinitrobenzene, 1,2- (o)	528-29-0	118 HSDB	1.565 HSDB	1.330E+02 Howard&Meylan	2.95E+01 HSDB	2.330E-06 HSDB	3.228E-02 Calculated	9.175E-06 Calculated	1.770E-01	8.033E-07	1.735E+05	7.761E+04	1.584E+05
Dinitrobenzene, 1,3- (m)	99-65-0	90 SCDM	1.5751 SCDM	8.610E+02 SCDM	3.00E+01 SCDM	2.310E-07 SCDM	2.790E-01 CHEM8	7.640E-06 CHEM8	1.800E-01	6.760E-07	1.892E+05	8.460E+04	1.727E+05
Dinitrophenol, 2,4-	51-28-5	113 HSDB-GeoMean	1.683 SCDM	2.790E+03 SCDM	1.00E-02 SCDM	4.430E-07 SCDM	2.730E-02 CHEM8	9.060E-06 CHEM8	6.000E-05	8.388E-07	1.698E+05	7.595E+04	1.550E+05
Dinitrotoluene, 2,4-	121-14-2	71 SCDM	1.3208 SCDM	2.700E+02 SCDM	9.50E+01 SCDM	9.260E-08 SCDM	2.030E-01 CHEM8	7.060E-06 CHEM8	5.700E-01	1.282E-07	4.344E+05	1.943E+05	3.966E+05
Dinitrotoluene, 2,6-	606-20-2	66 SCDM	1.2833 SCDM	1.820E+02 SCDM	7.00E+01 SCDM	7.470E-07 SCDM	3.270E-02 CHEM8	7.260E-06 CHEM8	4.200E-01	1.912E-07	3.557E+05	1.591E+05	3.247E+05
Di-n-octylphthalate	117-84-0	25 SCDM	0.978 HSDB	2.000E-02 SCDM	8.50E+07 SCDM	6.680E-05 SCDM	1.510E-02 CHEM8	3.580E-06 CHEM8	5.100E+05	4.365E-12	7.445E+07	3.329E+07	6.796E+07
Dinoseb	88-85-7	40 SCDM	1.265 SCDM	5.200E+01 SCDM	1.89E+01 SCDM	4.560E-07 SCDM	2.219E-02 Calculated	6.519E-06 Calculated	1.134E-01	2.975E-07	2.852E+05	1.275E+05	2.603E+05
Dioxane, 1,4-	123-91-1	11.8 SCDM	1.0337 SCDM	1.000E+06 SCDM	4.15E-01 HSDB	4.800E-06 SCDM	2.290E-01 CHEM8	1.020E-05 CHEM8	2.490E-03	2.405E-05	3.172E+04	1.418E+04	2.895E+04

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Dioxin [or 2,3,7,8-TCDD]	1746-01-6	295 SCDM	1.41 CHEM8	7.910E-06 SCDM	2.65E+06 SCDM	7.920E-05 SCDM	1.430E-02 CHEM8	5.830E-06 CHEM8	1.590E+04	1.579E-10	1.238E+07	5.535E+06	1.130E+07
Diphenamid	957-51-7	135 HSDB-GeoMean	1.17 HSDB	2.600E+02 HSDB	2.10E+02 HSDB	2.420E-11 HSDB	2.311E-02 Calculated	6.234E-06 Calculated	1.260E+00	2.910E-08	9.118E+05	4.078E+05	8.323E+05
Diphenylhydrazine, 1,2-	122-66-7	131 SCDM	1.158 SCDM	6.800E+01 SCDM	8.00E+02 SCDM	1.530E-06 SCDM	3.170E-02 CHEM8	7.360E-06 CHEM8	4.800E+00	3.116E-08	8.812E+05	3.941E+05	8.044E+05
Disulfoton	298-04-4	-25 SCDM	1.144 SCDM	1.630E+01 SCDM	8.00E+03 SCDM	3.990E-06 SCDM	1.959E-02 Calculated	5.666E-06 Calculated	4.800E+01	4.298E-09	2.372E+06	1.061E+06	2.166E+06
Diuron	330-54-1	158 SCDM	1.332 Calculated	4.200E+01 SCDM	4.30E+02 SCDM	2.700E-06 Howard&Meylan	2.253E-02 Calculated	6.846E-06 Calculated	2.580E+00	6.579E-08	6.064E+05	2.712E+05	5.535E+05
Endosulfan	115-29-7	106 SCDM	1.745 SCDM	5.100E-01 SCDM	2.14E+03 SCDM	1.120E-05 SCDM	1.150E-02 CHEM8	4.550E-06 CHEM8	1.284E+01	2.397E-08	1.005E+06	4.492E+05	9.170E+05
Endothall	145-73-3	144 SCDM	1.431 SCDM	2.100E+04 SCDM	2.90E-01 SCDM	2.590E-10 SCDM	2.192E-02 Calculated	7.165E-06 Calculated	1.740E-03	4.472E-07	2.326E+05	1.040E+05	2.123E+05
Endrin	72-20-8	392 HSDB	1.7 HSDB	2.500E-01 SCDM	1.23E+04 SCDM	7.520E-06 SCDM	1.250E-02 CHEM8	4.740E-06 CHEM8	7.380E+01	3.186E-09	2.756E+06	1.232E+06	2.516E+06
Epichlorohydrin	106-89-8	-48 HSDB	1.1801 HSDB	6.580E+04 HSDB	1.23E+02 HSDB	3.350E-05 CHEM8	8.600E-02 CHEM8	9.800E-06 CHEM8	7.380E-01	7.582E-06	5.649E+04	2.526E+04	5.157E+04
Ethion	563-12-2	-13 SCDM	1.22 SCDM	6.000E-01 SCDM	1.23E+04 SCDM	6.900E-07 HSDB	1.240E-02 Calculated	4.810E-06 Calculated	7.380E+01	6.662E-10	6.026E+06	2.695E+06	5.501E+06
Ethoprop	13194-48-4	20 HSDB	1.094 HSDB	7.500E+02 HSDB	9.40E+01 HSDB	1.620E-07 HSDB	2.346E-02 Calculated	5.943E-06 Calculated	5.640E-01	6.932E-08	5.907E+05	2.642E+05	5.393E+05
Ethoxyethanol, 2-	110-80-5	-70 HSDB	0.931 HSDB	1.000E+06 HSDB	1.60E+01 HSDB	1.000E-08 HSDB	9.470E-02 CHEM8	9.570E-06 CHEM8	9.600E-02	3.205E-07	2.747E+05	1.229E+05	2.508E+05
Ethyl acetate	141-78-6	-83.6 SCDM	0.9003 SCDM	8.030E+04 SCDM	4.75E+00 SCDM	1.380E-04 SCDM	7.320E-02 CHEM8	9.660E-06 CHEM8	2.850E-02	1.708E-04	1.190E+04	5.323E+03	1.087E+04
Ethyl acrylate	140-88-5	-71.2 HSDB	0.9234 HSDB	1.500E+04 HSDB	2.20E+01 HSDB	3.050E-04 HSDB	7.700E-02 CHEM8	8.600E-06 CHEM8	1.320E-01	2.191E-04	1.051E+04	4.699E+03	9.592E+03
Ethyl dipropylthiocarbamate, S- [or EPTC]	759-94-4	-9.99 HSDB est.	0.9546 SCDM	3.700E+02 SCDM	1.45E+03 SCDM	1.070E-04 SCDM	3.442E-02 Calculated	6.351E-06 Calculated	8.700E+00	9.187E-07	1.623E+05	7.257E+04	1.481E+05
Ethyl ether	60-29-7	-116.3 SCDM	0.7138 SCDM	5.680E+04 SCDM	6.50E+00 SCDM	3.300E-02 SCDM	7.400E-02 CHEM8	9.300E-06 CHEM8	3.900E-02	1.350E-02	1.339E+03	5.987E+02	1.222E+03
Ethyl methacrylate	97-63-2	-75 HSDB	0.9135 SCDM	3.670E+03 SCDM	3.65E+01 SCDM	8.420E-04 SCDM	6.890E-02 Calculated	8.380E-06 Calculated	2.190E-01	3.895E-04	7.881E+03	3.525E+03	7.195E+03

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]	2104-64-5	36 HSDB	1.27 CRC	3.110E+00 HSDB	5.35E+03 HSDB-GeoMean	1.300E-07 HSDB	1.514E-02 Calculated	5.467E-06 Calculated	3.210E+01	1.211E-09	4.469E+06	1.999E+06	4.079E+06
Ethylbenzene	100-41-4	-94.9 SCDM	0.867 SCDM	1.690E+02 SCDM	3.63E+02 SCDM	7.880E-03 SCDM	7.500E-02 CHEM8	7.800E-06 CHEM8	2.178E+00	5.519E-04	6.621E+03	2.961E+03	6.044E+03
Ethylene diamine	107-15-3	8.5 HSDB	0.898 HSDB	1.000E+06 HSDB est.	5.00E-02 HSDB	7.080E-08 CHEM8	1.525E-01 CHEM8	1.410E-05 CHEM8	3.000E-04	1.128E-06	1.465E+05	6.551E+04	1.337E+05
Ethylene glycol	107-21-1	-13 SCDM	1.1088 SCDM	1.000E+06 SCDM	4.60E-02 SCDM	6.000E-08 CHEM8	1.080E+01 CHEM8	1.220E-05 CHEM8	2.760E-04	1.489E-05	4.031E+04	1.803E+04	3.680E+04
Ethylene oxide	75-21-8	-111 HSDB	0.882 HSDB est.	1.000E+06 HSDB	1.60E+01 HSDB	1.480E-04 CHEM8	1.040E-01 CHEM8	1.450E-05 CHEM8	9.600E-02	1.710E-04	1.189E+04	5.319E+03	1.086E+04
Fenamiphos	22224-92-6	49.2 HSDB	1.15 HSDB	4.800E+02 HSDB-GeoMean	1.84E+02 HSDB-GeoMean	1.200E-09 HSDB	1.720E-02 Calculated	5.352E-06 Calculated	1.104E+00	2.825E-08	9.253E+05	4.138E+05	8.447E+05
Fensulfothion	115-90-2	215.5 Howard&Meylan	1.202 HSDB	1.540E+03 HSDB	8.99E+01 HSDB-GeoMean	1.800E-10 HSDB	1.650E-02 Calculated	5.442E-06 Calculated	5.394E-01	5.404E-08	6.691E+05	2.992E+05	6.108E+05
Fluometuron	2164-17-2	163.8 HSDB	1.39 HSDB	8.490E+01 HSDB-GeoMean	1.34E+02 HSDB-GeoMean	1.450E-09 HSDB	2.221E-02 Calculated	7.040E-06 Calculated	8.040E-01	4.951E-08	6.990E+05	3.126E+05	6.381E+05
Fluoranthene	206-44-0	107.8 SCDM	1.252 SCDM	2.060E-01 SCDM	1.10E+05 SCDM	1.610E-05 SCDM	3.020E-02 CHEM8	6.350E-06 CHEM8	6.600E+02	1.670E-09	3.806E+06	1.702E+06	3.474E+06
Fluorene	86-73-7	114.8 SCDM	1.203 SCDM	1.980E+00 SCDM	1.40E+04 SCDM	6.360E-05 SCDM	3.679E-02 Calculated	7.889E-06 Calculated	8.400E+01	6.136E-08	6.279E+05	2.808E+05	5.732E+05
Fluoride	7782-41-4	-219.6 SCDM	1.5127 HSDB	4.200E+04 CRC	7.50E+04 SCDM	NA Calculated	2.995E-01 Calculated	2.194E-05 Calculated	4.500E+02	3.094E-10	#	#	#
Fonofos	944-22-9	-9.99 HSDB est.	1.16 HSDB	1.300E+01 HSDB	6.71E+02 HSDB-GeoMean	5.400E-06 HSDB	2.236E-02 Calculated	6.096E-06 Calculated	4.026E+00	7.329E-08	5.745E+05	2.569E+05	5.245E+05
Formaldehyde	50-00-0	-92 SCDM	0.815 SCDM	5.500E+05 SCDM	9.00E-01 SCDM	3.360E-07 SCDM	1.780E-01 CHEM8	1.980E-05 CHEM8	5.400E-03	2.432E-06	9.974E+04	4.460E+04	9.105E+04
Furfural	98-01-1	-36.5 SCDM	1.1594 SCDM	1.100E+05 SCDM	2.55E+00 SCDM	4.000E-06 SCDM	8.720E-02 CHEM8	1.040E-05 CHEM8	1.530E-02	7.179E-06	5.805E+04	2.596E+04	5.299E+04
Guthion [or Azinphos, methyl]	86-50-0	73.5 SCDM	1.44 SCDM	2.090E+01 SCDM	4.70E+02 SCDM	1.500E-10 HSDB	1.950E-02 CHEM8	4.060E-06 CHEM8	2.820E+00	8.829E-09	1.655E+06	7.403E+05	1.511E+06
Heptachlor	76-44-8	95.5 SCDM	1.57 SCDM	1.800E-01 SCDM	1.45E+06 SCDM	1.480E-03 HSDB	1.120E-02 CHEM8	5.690E-06 CHEM8	8.700E+03	4.166E-09	2.410E+06	1.078E+06	2.200E+06
Heptachlor epoxide	1024-57-3	160 SCDM	1.5219 Calculated	2.000E-01 SCDM	8.00E+04 SCDM	9.500E-06 SCDM	1.098E-02 Calculated	5.452E-06 Calculated	4.800E+02	5.468E-10	6.651E+06	2.975E+06	6.072E+06

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Hexachloro-1,3-butadiene	87-68-3	-21	1.556	3.230E+00	5.50E+04	8.150E-03	5.610E-02	6.160E-06	3.300E+02	3.025E-06	8.943E+04	3.999E+04	8.163E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Hexachlorobenzene	118-74-1	231.8	2.044	5.000E-03	5.50E+04	1.320E-03	5.420E-02	5.910E-06	3.300E+02	4.735E-07	2.260E+05	1.011E+05	2.063E+05
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Hexachlorocyclohexane, alpha-	319-84-6	159.5	1.87	2.000E+00	1.23E+03	1.060E-05	1.449E-02	7.348E-06	7.380E+00	5.110E-08	6.880E+05	3.077E+05	6.281E+05
		HSDB-GeoMean	HSDB	SCDM	SCDM	SCDM	Calculated	Calculated					
Hexachlorocyclohexane, beta-	319-85-7	314.5	1.89	2.400E-01	1.26E+03	7.430E-07	1.443E-02	7.395E-06	7.560E+00	9.185E-09	1.623E+06	7.258E+05	1.481E+06
		Howard&Meylan	SCDM	SCDM	SCDM	SCDM	Calculated	Calculated					
Hexachlorocyclohexane, delta-	319-86-8	141.5	1.89	3.100E+01	2.29E+03	4.290E-07	1.443E-02	7.395E-06	1.374E+01	4.369E-09	2.353E+06	1.052E+06	2.148E+06
		SCDM	Surrogate (c)	SCDM	SCDM	SCDM	Calculated	Calculated					
Hexachlorocyclohexane, gamma-[or Lindane]	58-89-9	112.5	1.85	6.800E+00	1.07E+03	1.400E-05	1.420E-02	7.340E-06	6.420E+00	7.375E-08	5.727E+05	2.561E+05	5.228E+05
		SCDM	HSDB	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Hexachlorocyclopentadiene	77-47-4	-9	1.7019	1.800E+00	2.00E+05	2.700E-02	1.610E-02	7.210E-06	1.200E+03	7.911E-07	1.749E+05	7.820E+04	1.596E+05
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Hexachloroethane	67-72-1	187	2.091	5.000E+01	1.78E+03	3.890E-03	2.500E-03	6.800E-06	1.068E+01	1.969E-06	1.108E+05	4.957E+04	1.012E+05
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	121-82-4	205.5	1.82	5.980E+01	7.89E+01	6.300E-08	2.086E-02	8.499E-06	4.734E-01	9.910E-08	4.941E+05	2.210E+05	4.510E+05
		SCDM	SCDM	SCDM	HSDB-GeoMean	HSDB	Calculated	Calculated					
Hexane, n-	110-54-3	-95.3	0.6548	1.240E+01	8.50E+03	1.430E-02	2.000E-01	7.770E-06	5.100E+01	1.220E-04	1.408E+04	6.298E+03	1.286E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHM 8					
Hexanone, 2- [or Methyl butyl ketone]	591-78-6	-55.5	0.8113	1.750E+04	2.35E+01	9.300E-05	8.680E-02	8.440E-06	1.410E-01	7.317E-05	1.818E+04	8.132E+03	1.660E+04
		SCDM	SCDM	SCDM	SCDM	HSDB	Calculated	Calculated					
Hexazinone	51235-04-2	116	1.25	3.300E+04	2.21E+01	2.000E-12	2.093E-02	6.284E-06	1.326E-01	1.715E-07	3.756E+05	1.680E+05	3.429E+05
		HSDB	HSDB	HSDB	HSDB-GeoMean	HSDB	Calculated	Calculated					
Hydroquinone	123-31-9	170.5	1.332	7.270E+04	2.12E+01	1.320E-09	6.853E-02	9.040E-06	1.272E-01	2.535E-07	3.089E+05	1.382E+05	2.820E+05
		HSDB-GeoMean	HSDB	HSDB-GeoMean	HSDB-GeoMean	HSDB	CHEM8	CHEM8					
Indeno(1,2,3-cd)pyrene	193-39-5	161.5	1.351	2.200E-05	3.45E+06	1.600E-06	1.900E-02	5.660E-06	2.070E+04	4.944E-12	6.995E+07	3.128E+07	6.386E+07
		SCDM	Surrogate (a)	SCDM	SCDM	SCDM	CHEM8	CHEM8					
Iron	7439-89-6	1535	7.86	0.000	NA	NA	3.915E-01	4.681E-05	2.500E+01	1.184E-08	#	#	#
		SCDM	SCDM	HSDB			Calculated	Calculated	SCDM				
Isobutyl alcohol	78-83-1	-108	0.8018	8.500E+04	5.50E+00	1.180E-05	1.423E-01	1.004E-05	3.300E-02	2.804E-05	2.937E+04	1.314E+04	2.681E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	Calculated	Calculated					
Isophorone	78-59-1	-8.1	0.9255	1.200E+04	4.70E+01	6.640E-06	6.230E-02	6.760E-06	2.820E-01	2.477E-06	9.882E+04	4.419E+04	9.021E+04
		SCDM	SCDM	SCDM	SCDM	SCDM	CHEM8	CHEM8					

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Lead	7439-92-1	328	11.3437	0.000	NA	NA	1.122E-02	2.656E-05	1.400E+01	1.196E-08	#	#	#
Linuron	330-55-2	93.5	1.3588	8.100E+01	6.80E+02	6.600E-08	2.048E-02	6.658E-06	4.080E+00	1.082E-08	1.495E+06	6.688E+05	1.365E+06
Lithium	7439-93-32	180.54	NA	0.000	NA	NA	0.000E+00	0.000E+00	0.000	0.000	#	#	#
Malathion	121-75-5	2.8	1.21	1.430E+02	6.50E+02	4.890E-09	1.507E-02	5.243E-06	3.900E+00	8.360E-09	1.701E+06	7.607E+05	1.553E+06
Maneb	12427-38-2	200	1.92	6.000E+00	2.00E+03	4.360E-09	1.614E-02	7.889E-06	1.200E+01	4.152E-09	2.414E+06	1.080E+06	2.204E+06
Manganese	7439-96-5	1244	7.2	0.000	NA	NA	3.856E-01	4.485E-05	6.500E+01	4.373E-09	#	#	#
Mercury	7439-97-6	-38.9	13.534	5.600E-02	NA	1.140E-02	1.108E-02	3.011E-05	5.200E+01	5.291E-06	6.762E+04	3.024E+04	6.173E+04
Mercury, methyl	22967-92-6	NA	3.1874	1.000E+03	5.37E+02	1.520E-02	1.562E-02	1.163E-05	3.222E+00	1.508E-04	1.266E+04	5.664E+03	1.156E+04
Merphos	150-50-5	83	1	3.500E-03	6.20E+04	2.270E-05	1.877E-02	4.969E-06	3.720E+02	2.586E-09	3.059E+06	1.368E+06	2.792E+06
Methacrylonitrile	126-98-7	-35.8	0.8001	2.540E+04	3.40E+00	2.470E-04	1.531E-01	1.065E-05	2.040E-02	6.757E-04	5.983E+03	2.676E+03	5.462E+03
Methamidophos	10265-92-6	44.5	1.31	2.000E+06	3.85E+00	8.700E-10	4.412E-02	9.159E-06	2.310E-02	4.730E-07	2.262E+05	1.011E+05	2.064E+05
Methanol	67-56-1	-97.6	0.7914	1.000E+06	2.00E-01	4.550E-06	1.500E-01	1.640E-05	1.200E-03	1.575E-05	3.919E+04	1.752E+04	3.577E+04
Methidathion	950-37-8	39.5	1.495	2.160E+02	1.98E+01	7.170E-09	1.528E-02	6.277E-06	1.188E-01	1.832E-07	3.634E+05	1.625E+05	3.317E+05
Methomyl	16752-77-5	78	1.2946	5.800E+04	2.15E+00	3.800E-02	4.610E-02	6.070E-06	1.290E-02	9.383E-03	1.606E+03	7.181E+02	1.466E+03
Methoxy-5-nitroaniline, 2-	99-59-2	118	1.2068	2.210E+03	9.72E+01	1.250E-08	3.617E-02	7.849E-06	5.832E-01	7.438E-08	5.703E+05	2.551E+05	5.206E+05
Methoxychlor	72-43-5	87	1.41	4.500E-02	1.00E+05	1.580E-05	1.560E-02	4.460E-06	6.000E+02	9.444E-10	5.061E+06	2.263E+06	4.620E+06
Methyl acetate	79-20-9	-98	0.9342	2.430E+05	3.00E+01	5.110E-04	1.040E-01	1.000E-05	1.800E-01	4.090E-04	7.691E+03	3.439E+03	7.020E+03

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Methyl acrylate	96-33-3	-76.5 HSDB	0.9561 HSDB	5.590E+04 HSDB-GeoMean	1.10E+01 HSDB	1.970E-04 HSDB	9.760E-02 CHEM8	1.020E-05 CHEM8	6.600E-02	2.511E-04	9.816E+03	4.390E+03	8.960E+03
Methyl isobutyl ketone [or MIBK]	108-10-1	-84 SCDM	0.7978 SCDM	1.900E+04 SCDM	1.50E+01 SCDM	1.400E-04 SCDM	7.500E-02 CHEM8	7.800E-06 CHEM8	9.000E-02	1.203E-04	1.418E+04	6.342E+03	1.295E+04
Methyl methacrylate	80-62-6	-48 SCDM	0.944 SCDM	1.500E+04 SCDM	2.25E+01 SCDM	3.370E-04 SCDM	7.700E-02 CHEM8	8.600E-06 CHEM8	1.350E-01	2.388E-04	1.007E+04	4.501E+03	9.189E+03
Methyl parathion [or Parathion, methyl]	298-00-0	37.5 SCDM	1.358 SCDM	5.500E+01 SCDM	7.00E+02 SCDM	1.000E-07 SCDM	2.000E-02 CHEM8	5.910E-06 CHEM8	4.200E+00	9.741E-09	1.576E+06	7.048E+05	1.439E+06
Methyl tert-butyl ether [or MTBE]	1634-04-4	-109 HSDB	0.7405 HSDB	5.100E+04 HSDB	1.12E+01 HSDB	5.870E-04 HSDB	1.024E-01 CHEM8	1.050E-05 CHEM8	6.720E-02	7.648E-04	5.624E+03	2.515E+03	5.134E+03
Methyl-4-chlorophenoxy acetic acid, 2-	94-74-6	120 HSDB	1.56 HSDB	8.250E+02 HSDB-GeoMean	5.38E+01 HSDB	1.330E-09 HSDB	2.555E-02 Calculated	8.237E-06 Calculated	3.228E-01	1.238E-07	4.420E+05	1.977E+05	4.035E+05
Methylaniline, 2-	95-53-4	-14.7 HSDB	1.008 HSDB	1.660E+04 HSDB-GeoMean	5.94E+01 HSDB	2.720E-06 HSDB	7.197E-02 Calculated	9.233E-06 Calculated	3.564E-01	1.065E-06	1.507E+05	6.739E+04	1.376E+05
Methylene bis(2-chloroaniline), 4,4-	101-14-4	110 HSDB	1.44 SCDM	1.390E+01 SCDM	2.25E+01 SCDM	4.060E-11 SCDM	1.990E-02 CHEM8	5.770E-06 CHEM8	1.350E-01	1.559E-07	3.940E+05	1.762E+05	3.596E+05
Methylene bromide	74-95-3	-52.5 SCDM	2.4969 SCDM	1.190E+04 SCDM	2.29E+01 SCDM	8.610E-04 SCDM	2.533E-02 Calculated	1.190E-05 Calculated	1.374E-01	1.955E-04	1.113E+04	4.975E+03	1.016E+04
Methylene chloride	75-09-2	-95.1 SCDM	1.3266 SCDM	1.300E+04 SCDM	1.18E+01 SCDM	2.190E-03 SCDM	1.010E-01 CHEM8	1.170E-05 CHEM8	7.080E-02	2.573E-03	3.066E+03	1.371E+03	2.799E+03
Methylnaphthalene, 1-	90-12-0	-22 HSDB	1.0202 HSDB	2.580E+01 HSDB	2.66E+03 HSDB	2.600E-04 HSDB	4.800E-02 CHEM8	7.840E-06 CHEM8	1.596E+01	1.700E-06	1.193E+05	5.334E+04	1.089E+05
Methylnaphthalene, 2-	91-57-6	34.4 SCDM	1.0058 SCDM	2.460E+01 SCDM	7.50E+03 SCDM	5.180E-04 SCDM	4.800E-02 CHEM8	7.840E-06 CHEM8	4.500E+01	1.205E-06	1.417E+05	6.336E+04	1.293E+05
Methylphenol, 2- [or o-Cresol]	95-48-7	29.8 SCDM	1.135 SCDM	2.600E+04 SCDM	9.00E+01 SCDM	1.200E-06 SCDM	7.400E-02 CHEM8	8.300E-06 CHEM8	5.400E-01	3.854E-07	2.505E+05	1.120E+05	2.287E+05
Methylphenol, 3- [or m-Cresol]	108-39-4	11.8 SCDM	1.0341 SCDM	2.270E+04 SCDM	8.50E+01 SCDM	8.650E-07 SCDM	7.400E-02 CHEM8	1.000E-05 CHEM8	5.100E-01	3.333E-07	2.694E+05	1.205E+05	2.459E+05
Methylphenol, 4- [or p-Cresol]	106-44-5	35.5 SCDM	1.0185 SCDM	2.150E+04 SCDM	8.50E+01 SCDM	7.920E-07 SCDM	7.400E-02 CHEM8	1.000E-05 CHEM8	5.100E-01	3.139E-07	2.776E+05	1.241E+05	2.534E+05
Metolachlor	51218-45-2	-9.99 HSDB est.	1.12 HSDB	5.300E+02 HSDB-GeoMean	1.76E+02 HSDB	9.000E-09 HSDB	1.896E-02 Calculated	5.483E-06 Calculated	1.056E+00	3.043E-08	8.916E+05	3.987E+05	8.139E+05
Metribuzin	21087-64-9	126 SCDM	1.31 SCDM	1.200E+03 SCDM	4.70E+01 SCDM	8.780E-02 SCDM	2.533E-02 Calculated	7.129E-06 Calculated	2.820E-01	4.568E-03	2.301E+03	1.029E+03	2.101E+03

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Mevinphos	7786-34-7	12	1.25	6.000E+05	5.09E+01	3.900E-09	2.440E-02	6.747E-06	3.054E-01	1.062E-07	4.774E+05	2.135E+05	4.358E+05
Molinate	2212-67-1	-9.99	1.5156	8.800E+02	1.11E+02	4.100E-06	2.833E-02	8.434E-06	6.660E-01	4.011E-07	2.456E+05	1.098E+05	2.242E+05
Molybdenum	7439-98-7	2610	10.2	0.000	NA	NA	3.040E-01	3.956E-05	2.000E+01	1.249E-08	#	#	#
Naled	300-76-5	26.9	1.96	2.000E+03	1.11E+02	5.000E-07	1.004E-02	6.430E-06	6.660E-01	6.760E-08	5.982E+05	2.675E+05	5.461E+05
Naphthalene	91-20-3	80.2	1.0253	3.100E+01	2.00E+03	4.830E-04	5.900E-02	7.500E-06	1.200E+01	5.147E-06	6.856E+04	3.066E+04	6.259E+04
Nickel	7440-02-0	1455	8.9	0.000	NA	NA	3.933E-01	4.895E-05	6.500E+01	4.773E-09	#	#	#
Nitrate	14797-55-8	308	2.26	9.210E+05	NA	NA	2.434E-01	2.081E-05	0.000	1.321E-06	#	#	#
Nitrite	14797-65-0	271	2.26	6.670E+05	NA	NA	3.001E-01	2.489E-05	0.000	1.580E-06	#	#	#
Nitrobenzene	98-95-3	5.7	1.2037	2.090E+03	6.50E+01	2.400E-05	7.600E-02	8.600E-06	3.900E-01	8.239E-06	5.419E+04	2.423E+04	4.946E+04
Nitroglycerin	55-63-0	13	1.5931	1.800E+03	1.82E+02	4.200E-08	2.110E-02	7.760E-06	1.092E+00	4.295E-08	7.505E+05	3.356E+05	6.851E+05
Nitrophenol, 4-	100-02-7	113.8	1.479	1.160E+04	4.89E+01	4.150E-10	4.300E-02	9.610E-06	2.934E-01	1.552E-07	3.948E+05	1.766E+05	3.604E+05
Nitroso-diethylamine, N-	55-18-5	-10	0.9422	9.300E+04	2.95E+00	3.630E-06	7.915E-02	9.125E-06	1.770E-02	5.823E-06	6.446E+04	2.883E+04	5.884E+04
Nitroso-dimethylamine, N-	62-75-9	-9.99	1.0059	1.000E+06	2.75E-01	1.200E-06	1.126E-01	1.240E-05	1.650E-03	3.678E-06	8.110E+04	3.627E+04	7.404E+04
Nitroso-di-n-butylamine, N-	924-16-3	2.1	0.9009	1.270E+03	2.35E+02	3.160E-04	4.474E-02	6.831E-06	1.410E+00	2.045E-05	3.440E+04	1.538E+04	3.140E+04
Nitroso-di-n-propylamine, N-	621-64-7	7	0.916	1.000E+04	1.31E+02	1.400E-06	5.758E-02	7.755E-06	7.860E-01	2.543E-07	3.084E+05	1.379E+05	2.816E+05
Nitroso-diphenylamine, N-	86-30-6	66.5	1.23	3.510E+01	1.30E+03	5.000E-06	2.886E-02	7.193E-06	7.800E+00	4.569E-08	7.277E+05	3.254E+05	6.643E+05
Nitroso-N-methylethylamine, N-	10595-95-6	-9.99	0.9448	1.970E+04	7.50E-01	1.400E-06	1.346E-01	9.989E-06	4.500E-03	4.544E-06	7.297E+04	3.263E+04	6.661E+04

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Nitrotoluene, m-	99-08-1	15.5 HSDB	1.1581 HSDB	4.990E+02 HSDB-GeoMean	1.43E+02 HSDB	7.500E-05 HSDB	4.950E-02 CHEM8	8.220E-06 CHEM8	8.580E-01	8.514E-06	5.330E+04	2.384E+04	4.866E+04
Nitrotoluene, o-	88-72-2	-9.5 HSDB	1.1622 HSDB	6.250E+02 HSDB-GeoMean	2.30E+02 HSDB-GeoMean	5.600E-05 HSDB	4.760E-02 CHEM8	8.670E-06 CHEM8	1.380E+00	3.970E-06	7.806E+04	3.491E+04	7.126E+04
Nitrotoluene, p-	99-99-0	51.6 SCDM	1.1038 SCDM	9.360E+01 SCDM	2.30E+02 SCDM	2.090E-07 SCDM	4.780E-02 CHEM8	8.610E-06 CHEM8	1.380E+00	5.168E-08	6.842E+05	3.060E+05	6.246E+05
Octamethylpyrophosphoramido	152-16-9	17 SCDM	1.1343 SCDM	1.000E+06 SCDM	3.10E-01 SCDM	6.300E-17 HSDB	1.864E-02 Calculated	5.496E-06 Calculated	1.860E-03	3.425E-07	2.658E+05	1.188E+05	2.426E+05
Oxamyl	23135-22-0	109 HSDB-GeoMean	0.98 HSDB	2.800E+05 HSDB	8.89E+00 HSDB	2.370E-10 HSDB	2.811E-02 Calculated	5.908E-06 Calculated	5.334E-02	2.447E-07	3.144E+05	1.406E+05	2.870E+05
Paraquat	1910-42-5	300 Merck	1.24 HSDB	1.000E+06 Merck	1.24E+05 HSDB-GeoMean	1.000E-09 HSDB	3.121E-02 Calculated	7.504E-06 Calculated	7.440E+02	6.411E-11	1.943E+07	8.688E+06	1.773E+07
Parathion	56-38-2	6.1 SCDM	1.2681 SCDM	6.540E+00 SCDM	6.00E+03 SCDM	5.650E-07 SCDM	1.700E-02 CHEM8	5.790E-06 CHEM8	3.600E+01	1.599E-09	3.889E+06	1.739E+06	3.550E+06
PCBs [Aroclor mixture]	1336-36-3	357.1 HSDB-GeoMean	1.44 HSDB	7.000E-02 SCDM	8.50E+05 SCDM	2.600E-03 SCDM	1.750E-02 CHEM8	8.000E-06 CHEM8	5.100E+03	1.950E-08	1.114E+06	4.981E+05	1.017E+06
Pebulate	1114-71-2	-9.99 HSDB est.	0.9458 HSDB	6.000E+01 HSDB	5.05E+02 HSDB-GeoMean	1.600E-04 HSDB	3.149E-02 Calculated	6.050E-06 Calculated	3.030E+00	3.528E-06	8.281E+04	3.703E+04	7.560E+04
Pendimethalin	40487-42-1	56.5 HSDB	1.19 HSDB	3.000E-01 HSDB	2.40E+03 HSDB	5.890E-06 HSDB-GeoMean	1.863E-02 Calculated	5.716E-06 Calculated	1.440E+01	1.903E-08	1.127E+06	5.042E+05	1.029E+06
Pentachlorobenzene	608-93-5	86 SCDM	1.8342 SCDM	1.330E+00 SCDM	1.74E+04 SCDM	7.100E-04 SCDM	5.700E-02 CHEM8	6.300E-06 CHEM8	1.044E+02	8.463E-07	1.691E+05	7.561E+04	1.543E+05
Pentachloronitrobenzene	82-68-8	144 SCDM	1.718 SCDM	5.500E-01 SCDM	3.65E+04 SCDM	3.800E-04 SCDM	1.590E-02 CHEM8	6.140E-06 CHEM8	2.190E+02	6.041E-08	6.328E+05	2.830E+05	5.777E+05
Pentachlorophenol	87-86-5	174 SCDM	1.978 SCDM	1.950E+03 SCDM	5.92E+02 SCDM	2.440E-08 SCDM	5.600E-02 CHEM8	6.100E-06 CHEM8	3.552E+00	1.142E-08	1.455E+06	6.509E+05	1.329E+06
Permethrin	52645-53-1	34.5 HSDB	1.23 HSDB-GeoMean	1.170E-01 HSDB-GeoMean	6.31E+04 HSDB	2.510E-08 HSDB	1.209E-02 Calculated	4.783E-06 Calculated	3.786E+02	8.193E-11	1.718E+07	7.685E+06	1.569E+07
Phenanthrene	85-01-8	99.2 SCDM	0.98 SCDM	1.150E+00 SCDM	2.95E+04 SCDM	2.330E-05 SCDM	3.680E-02 Calculated	6.690E-06 Calculated	1.770E+02	1.082E-08	1.495E+06	6.688E+05	1.365E+06
Phenol	108-95-2	40.9 SCDM	1.0545 SCDM	8.280E+04 SCDM	2.85E+01 SCDM	3.970E-07 SCDM	8.200E-02 CHEM8	9.100E-06 CHEM8	1.710E-01	4.756E-07	2.255E+05	1.009E+05	2.059E+05
Phenylenediamine, p-	106-50-3	146 HSDB	1.0096 Surrogate (d)	3.800E+04 HSDB	1.60E+01 HSDB	6.700E-10 HSDB	6.615E-02 CHEM8	9.930E-06 CHEM8	9.600E-02	3.221E-07	2.741E+05	1.226E+05	2.502E+05

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial
Phenylphenol, 2-	90-43-7	56.5 HSDB	1.213 HSDB	7.000E+02 HSDB	4.38E+02 HSDB-GeoMean	5.230E-08 HSDB	3.552E-02 Calculated	7.817E-06 Calculated	2.628E+00	1.968E-08	1.109E+06	4.959E+05	1.012E+06
Phorate	298-02-2	-42.9 HSDB	1.16 SCDM	5.000E+01 SCDM	5.50E+03 SCDM	4.400E-06 HSDB	2.082E-02 Calculated	5.896E-06 Calculated	3.300E+01	7.176E-09	1.836E+06	8.211E+05	1.676E+06
Phosmet	732-11-6	71.9 HSDB	1.03 HSDB	2.320E+01 HSDB-GeoMean	7.98E+02 HSDB-GeoMean	8.380E-09 HSDB	1.713E-02 Calculated	4.876E-06 Calculated	4.788E+00	6.397E-09	1.945E+06	8.697E+05	1.775E+06
Phthalic anhydride	85-44-9	130.8 SCDM	1.527 SCDM	6.200E+03 SCDM	3.60E+01 HSDB	1.630E-08 SCDM	7.100E-02 CHEM8	8.600E-06 CHEM8	2.160E-01	1.808E-07	3.658E+05	1.636E+05	3.340E+05
Prometon	1610-18-0	91.5 HSDB	1.088 HSDB	7.500E+02 HSDB	4.69E+02 HSDB-GeoMean	9.100E-10 HSDB	2.584E-02 Calculated	6.189E-06 Calculated	2.814E+00	1.350E-08	1.339E+06	5.987E+05	1.222E+06
Prometryn	7287-19-6	119 HSDB	1.15 HSDB	4.800E+01 HSDB	5.14E+02 HSDB-GeoMean	1.300E-08 HSDB	2.304E-02 Calculated	6.139E-06 Calculated	3.084E+00	1.244E-08	1.394E+06	6.235E+05	1.273E+06
Propachlor	1918-16-7	71.4 HSDB-GeoMean	1.242 HSDB	6.130E+02 HSDB	1.89E+02 HSDB-GeoMean	1.090E-07 HSDB	2.637E-02 Calculated	6.955E-06 Calculated	1.134E+00	4.087E-08	7.694E+05	3.441E+05	7.024E+05
Propanil	709-98-8	87 HSDB	1.054 HSDB	2.250E+02 HSDB-GeoMean	1.81E+02 HSDB-GeoMean	4.500E-09 HSDB	2.736E-02 Calculated	6.191E-06 Calculated	1.086E+00	3.337E-08	8.515E+05	3.808E+05	7.773E+05
Propazine	139-40-2	213 HSDB	1.162 HSDB	6.600E+00 HSDB-GeoMean	2.66E+02 HSDB-GeoMean	1.330E-11 HSDB	2.439E-02 Calculated	6.357E-06 Calculated	1.596E+00	2.379E-08	1.008E+06	4.509E+05	9.205E+05
Propylene glycol	57-55-6	-59 HSDB	1.0361 CRC	1.000E+06 HSDB	4.60E-02 Surrogate (w)	1.310E-10 HSDB	9.300E-02 CHEM8	1.020E-05 CHEM8	2.760E-04	6.460E-07	1.935E+05	8.654E+04	1.767E+05
Propylene oxide	75-56-9	-112.13 HSDB	0.8304 HSDB	4.890E+05 HSDB-GeoMean	1.04E+01 HSDB-GeoMean	8.300E-05 HSDB	1.040E-01 CHEM8	1.000E-05 CHEM8	6.240E-02	1.160E-04	1.444E+04	6.457E+03	1.318E+04
Pydrin [or Fenvalerate]	51630-58-1	59.6 Howard&Meylan	1.17 HSDB	1.000E+00 HSDB	9.85E+03 HSDB-GeoMean	1.190E-07 HSDB	1.134E-02 Calculated	4.450E-06 Calculated	5.910E+01	5.270E-10	6.776E+06	3.030E+06	6.185E+06
Pyrene	129-00-0	151.2 SCDM	1.271 SCDM	1.350E-01 SCDM	1.05E+05 SCDM	1.100E-05 SCDM	2.770E-02 Calculated	7.248E-06 Calculated	6.300E+02	1.129E-09	4.629E+06	2.070E+06	4.225E+06
Pyridine	110-86-1	-41.6 SCDM	0.9819 SCDM	1.000E+06 SCDM	4.55E+00 SCDM	8.800E-06 SCDM	1.478E-01 Calculated	1.090E-05 Calculated	2.730E-02	2.285E-05	3.254E+04	1.455E+04	2.970E+04
Resmethrin	10453-86-8	45.5 HSDB	0.963 HSDB-GeoMean	1.000E+00 HSDB	1.41E+05 HSDB-GeoMean	5.560E-06 HSDB	1.632E-02 Calculated	4.505E-06 Calculated	8.460E+02	2.680E-10	9.500E+06	4.249E+06	8.672E+06
Ronnel	299-84-3	41 SCDM	1.44 SCDM	1.080E+00 SCDM	9.50E+04 SCDM	3.200E-05 HSDB	1.437E-02 Calculated	5.915E-06 Calculated	5.700E+02	1.827E-09	3.639E+06	1.627E+06	3.321E+06
Selenium	7782-49-2	217 SCDM	4.81 SCDM	0.000 HSDB	NA	NA	2.674E-01 Calculated	2.811E-05 Calculated	5.000E+00 SSG	3.499E-08	#	#	#

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***					
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)			
											Resident	Child	Industrial	
Silver	7440-22-4	962	10.49	0.000	NA	NA	2.982E-02	3.750E-05	8.300E+00	2.834E-08	#	#	#	SCDM
Simazine	122-34-9	226	1.33	6.200E+00	3.93E+02	3.400E-09	2.724E-02	7.461E-06	2.358E+00	1.935E-08	1.118E+06	5.000E+05	1.021E+06	HSDB-GeoMean
Strontium	7440-24-6	769	2.6	0.000	NA	NA	2.025E-01	1.839E-05	3.500E+01	3.327E-09	#	#	#	SCDM
Strychnine	57-24-9	287	1.36	1.600E+02	8.00E+01	7.600E-14	1.404E-02	5.582E-06	4.800E-01	6.110E-08	6.292E+05	2.814E+05	5.744E+05	SCDM
Styrene	100-42-5	-31	0.906	3.100E+02	8.00E+02	2.750E-03	7.100E-02	8.000E-06	4.800E+00	8.667E-05	1.671E+04	7.471E+03	1.525E+04	SCDM
Terbacil	5902-51-2	176	1.34	7.100E+02	4.58E+01	1.200E-10	2.472E-02	7.179E-06	2.748E-01	1.216E-07	4.460E+05	1.995E+05	4.071E+05	HSDB
Terbufos	13071-79-9	-29.2	1.105	1.500E+01	2.40E+03	2.400E-05	1.869E-02	5.386E-06	1.440E+01	6.994E-08	5.881E+05	2.630E+05	5.369E+05	HSDB
Tetrachlorobenzene, 1,2,4,5-	95-94-3	139.5	1.858	5.950E-01	5.60E+03	2.580E-03	2.110E-02	8.750E-06	3.360E+01	3.528E-06	8.281E+04	3.703E+04	7.559E+04	SCDM
Tetrachloroethane, 1,1,1,2-	630-20-6	-70.2	1.5406	1.100E+03	1.45E+02	2.420E-03	3.257E-02	9.098E-06	8.700E-01	1.742E-04	1.179E+04	5.271E+03	1.076E+04	SCDM
Tetrachloroethane, 1,1,2,2-	79-34-5	-43.8	1.5953	2.970E+03	9.35E+01	3.450E-04	7.100E-02	7.900E-06	5.610E-01	8.070E-05	1.731E+04	7.743E+03	1.581E+04	SCDM
Tetrachloroethene [or PCE]	127-18-4	-22.3	1.6227	2.000E+02	1.55E+02	1.840E-02	7.200E-02	8.200E-06	9.300E-01	2.467E-03	3.131E+03	1.400E+03	2.858E+03	SCDM
Tetrachlorophenol, 2,3,4,6-	58-90-2	70	1.839	1.000E+02	2.80E+02	4.390E-06	2.170E-02	7.100E-06	1.680E+00	1.422E-07	4.124E+05	1.844E+05	3.765E+05	HSDB
Tetraethyl dithiopyrophosphate	3689-24-5	88	1.196	2.500E+01	7.40E+02	2.900E-06	1.500E-02	5.450E-06	4.440E+00	2.855E-08	9.205E+05	4.117E+05	8.403E+05	SCDM
Thiram	137-26-8	155.6	1.29	3.000E+01	6.70E+02	1.820E-07	2.196E-02	6.592E-06	4.020E+00	1.228E-08	1.404E+06	6.278E+05	1.281E+06	SCDM
Tin	7440-31-5	231.9	5.75	0.000	NA	NA	3.155E-02	2.468E-05	0.000	1.567E-06	#	#	#	HSDB
Toluene	108-88-3	-94.9	0.8669	5.260E+02	1.82E+02	6.640E-03	8.700E-02	8.600E-06	1.092E+00	1.015E-03	4.883E+03	2.184E+03	4.457E+03	SCDM
Toluidine, p-	106-49-0	43.7	0.9616	7.820E+02	2.40E+01	7.220E-06	6.976E-02	9.430E-06	1.440E-01	4.753E-06	7.134E+04	3.190E+04	6.512E+04	SCDM

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Toxaphene	8001-35-2 HSDB-GeoMean	76.5 HSDB	1.65 SCDM	7.400E-01 SCDM	2.55E+05 SCDM	6.000E-06 SCDM	1.160E-02 CHEM8	4.340E-06 CHEM8	1.530E+03	1.174E-10	1.436E+07	6.421E+06	1.311E+07
Triallate	2303-17-5 HSDB-GeoMean	29.5 HSDB	1.273 HSDB	4.000E+00 HSDB	2.22E+03 HSDB	1.930E-05 HSDB	1.630E-02 Calculated	5.674E-06 Calculated	1.332E+01	5.390E-08	6.699E+05	2.996E+05	6.116E+05
Tributyltin oxide	56-35-9 HSDB est.	-9.99 HSDB	1.17 HSDB-GeoMean	8.940E+00 HSDB	9.08E+04 HSDB	1.260E-07 HSDB	7.370E-03 Calculated	3.607E-06 Calculated	5.448E+02	4.575E-11	2.300E+07	1.028E+07	2.099E+07
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	76-13-1 SCDM	-35 SCDM	1.5635 SCDM	1.700E+02 SCDM	3.80E+02 SCDM	4.810E-01 SCDM	2.880E-02 CHEM8	8.070E-06 CHEM8	2.280E+00	4.950E-03	2.211E+03	9.887E+02	2.018E+03
Trichloroacetic acid	76-03-9 HSDB	57.5 HSDB	1.6126 HSDB-GeoMean	6.300E+06 HSDB	1.00E+00 HSDB	2.400E-08 HSDB	3.310E-02 Calculated	9.502E-06 Calculated	6.000E-03	5.855E-07	2.033E+05	9.091E+04	1.856E+05
Trichlorobenzene, 1,2,3-	87-61-6 HSDB	52.6 HSDB	1.69 HSDB	1.630E+01 HSDB	1.55E+03 HSDB-GeoMean	1.250E-03 HSDB	3.000E-02 CHEM8	8.230E-06 CHEM8	9.300E+00	8.711E-06	5.270E+04	2.357E+04	4.811E+04
Trichlorobenzene, 1,2,4-	120-82-1 SCDM	17 SCDM	1.459 SCDM	3.460E+01 SCDM	1.78E+03 SCDM	1.420E-03 SCDM	3.000E-02 CHEM8	8.230E-06 CHEM8	1.068E+01	8.628E-06	5.295E+04	2.368E+04	4.834E+04
Trichlorobenzene, 1,3,5-	108-70-3 HSDB-GeoMean	63.5 Mackay	1.3865 HSDB	5.800E+00 HSDB	9.91E+03 HSDB-GeoMean	1.900E-03 HSDB	3.000E-02 CHEM8	8.230E-06 CHEM8	5.946E+01	2.091E-06	1.076E+05	4.810E+04	9.819E+04
Trichloroethane, 1,1,1- [or Methyl chloroform]	71-55-6 SCDM	-30.4 SCDM	1.339 SCDM	1.330E+03 SCDM	1.10E+02 SCDM	1.720E-02 SCDM	7.800E-02 CHEM8	8.800E-06 CHEM8	6.600E-01	3.280E-03	2.716E+03	1.215E+03	2.479E+03
Trichloroethane, 1,1,2-	79-00-5 SCDM	-36.6 SCDM	1.4397 SCDM	4.420E+03 SCDM	5.00E+01 SCDM	9.130E-04 SCDM	7.800E-02 CHEM8	8.800E-06 CHEM8	3.000E-01	3.823E-04	7.955E+03	3.558E+03	7.262E+03
Trichloroethene [or TCE]	79-01-6 SCDM	-84.7 SCDM	1.4642 SCDM	1.100E+03 SCDM	1.66E+02 SCDM	1.030E-02 SCDM	7.900E-02 CHEM8	9.100E-06 CHEM8	9.960E-01	1.512E-03	4.001E+03	1.789E+03	3.652E+03
Trichlorofluoromethane	75-69-4 SCDM	-111.1 CHEM8	1.49 SCDM	1.100E+03 SCDM	1.20E+02 SCDM	9.700E-02 SCDM	8.700E-02 CHEM8	9.700E-06 CHEM8	7.200E-01	1.172E-02	1.437E+03	6.425E+02	1.312E+03
Trichlorophenol, 2,4,5-	95-95-4 SCDM	69 HSDB	1.678 SCDM	1.200E+03 SCDM	1.60E+03 SCDM	4.330E-06 SCDM	2.910E-02 CHEM8	7.030E-06 CHEM8	9.600E+00	3.298E-08	8.565E+05	3.830E+05	7.819E+05
Trichlorophenol, 2,4,6-	88-06-2 SCDM	69 SCDM	1.4901 SCDM	8.000E+02 SCDM	3.81E+02 SCDM	7.790E-06 SCDM	3.180E-02 CHEM8	6.250E-06 CHEM8	2.286E+00	2.434E-07	3.153E+05	1.410E+05	2.878E+05
Trichlorophenoxy acetic acid, 2,4,5-	93-76-5 SCDM	153 HSDB	1.8 SCDM	2.680E+02 SCDM	3.41E+01 SCDM	8.680E-09 SCDM	1.745E-02 Calculated	7.763E-06 Calculated	2.046E-01	1.629E-07	3.854E+05	1.724E+05	3.518E+05
Trichlorophenoxy propionic acid [or Silvex]	93-72-1 HSDB	181.6 HSDB	1.2085 HSDB	1.400E+02 HSDB	2.60E+03 HSDB	9.060E-09 Howard&Meylan	1.940E-02 CHEM8	5.830E-06 CHEM8	1.560E+01	2.382E-09	3.187E+06	1.425E+06	2.909E+06
Trichloropropane, 1,2,3-	96-18-4 SCDM	-14.7 SCDM	1.3889 SCDM	1.750E+03 SCDM	7.25E+01 SCDM	4.090E-04 SCDM	7.100E-02 CHEM8	7.900E-06 CHEM8	4.350E-01	1.180E-04	1.432E+04	6.404E+03	1.307E+04

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)	Resident	Child
Trifluralin	1582-09-8	49	1.15 SCDM CHEM8	8.110E+00 SCDM	1.95E+04 SCDM	2.640E-05 SCDM	1.493E-02 CHEM8	5.040E-06 CHEM8	1.170E+02	7.626E-09	1.781E+06	7.965E+05	1.626E+06
Trimethyl phosphate	512-56-1	-46	1.2144 HSDB	5.000E+05 HSDB	6.20E+00 HSDB	7.200E-09 HSDB	4.607E-02 Calculated	8.792E-06 Calculated	3.720E-02	4.121E-07	2.423E+05	1.084E+05	2.212E+05
Trimethylbenzene, 1,2,3-	526-73-8	-43.8	0.8761 HSDB	5.700E+01 HSDB	7.20E+02 HSDB	6.160E-03 HSDB	6.400E-02 CHEM8	7.990E-06 CHEM8	4.320E+00	1.928E-04	1.120E+04	5.010E+03	1.023E+04
Trimethylbenzene, 1,2,4-	95-63-6	-43.8	0.8761 HSDB	5.700E+01 HSDB	7.20E+02 HSDB	6.160E-03 HSDB	6.543E-02 Calculated	7.922E-06 Calculated	4.320E+00	1.971E-04	1.108E+04	4.955E+03	1.011E+04
Trimethylbenzene, 1,3,5-	108-67-8	-44.8	0.8637 HSDB	3.100E+01 HSDB-GeoMean	6.60E+02 HSDB	8.770E-03 HSDB	6.020E-02 CHEM8	8.670E-06 CHEM8	3.960E+00	2.794E-04	9.305E+03	4.162E+03	8.495E+03
Trinitrobenzene, 1,3,5-	99-35-4	121.5	1.4775 SCDM	3.500E+02 SCDM	1.45E+01 SCDM	1.600E-08 SCDM	2.417E-02 Calculated	7.688E-06 Calculated	8.700E-02	2.655E-07	3.019E+05	1.350E+05	2.756E+05
Trinitrotoluene, 2,4,6-	118-96-7	80.1	1.654 SCDM	1.240E+02 SCDM	3.75E+01 SCDM	4.870E-09 SCDM	2.450E-02 CHEM8	6.360E-06 CHEM8	2.250E-01	1.250E-07	4.399E+05	1.967E+05	4.015E+05
TRPH	NOCAS#	999	NA	6.500E+01 TPHCWG	1.58E+03 TPHCWG	1.170E-02 TPHCWG	1.000E-01 TPHCWG	1.000E-05 TPHCWG	9.480E+00	2.643E-04	9.568E+03	4.279E+03	8.734E+03
Uranium, natural	7440-61-1	1132.3	19.05 SCDM	0.000 HSDB	NA	NA	7.758E-03 Calculated	3.336E-05 Calculated	4.500E+02 SCDM	4.705E-10	#	#	#
Vanadium	7440-62-2	1917	6.11 SCDM	0.000 HSDB	NA	NA	3.857E-01 Calculated	4.253E-05 Calculated	1.000E+03 SCDM	2.699E-10	#	#	#
Vernam	1929-77-7	-9.99	0.954 HSDB est.	1.070E+02 HSDB	2.50E+02 HSDB-GeoMean	3.050E-05 HSDB	3.137E-02 Calculated	6.082E-06 Calculated	1.500E+00	1.330E-06	1.349E+05	6.031E+04	1.231E+05
Vinyl acetate	108-05-4	-93.2	0.9317 SCDM	2.000E+04 SCDM	5.00E+00 SCDM	5.110E-04 SCDM	8.500E-02 CHEM8	9.200E-06 CHEM8	3.000E-02	7.087E-04	5.843E+03	2.613E+03	5.334E+03
Vinyl chloride	75-01-4	-153.7	0.9106 SCDM	2.760E+03 SCDM	1.86E+01 SCDM	2.700E-02 SCDM	1.703E-01 Calculated	1.200E-05 Calculated	1.116E-01	2.384E-02	1.007E+03	4.505E+02	9.195E+02
Xylenes, total	1330-20-7	-19.86	0.864 ATSDR	1.300E+02 HSDB	1.53E+02 ATSDR	7.000E-03 HSDB-GeoMean	7.140E-02 HSDB	9.340E-06 CHEM8	9.180E-01	1.018E-03	4.874E+03	2.180E+03	4.450E+03
Zinc	7440-66-6	419.5	7.14 SCDM	0.000 HSDB	NA	NA	3.446E-01 Calculated	4.020E-05 Calculated	6.200E+01 SCDM	4.109E-09	#	#	#
Zinc phosphide	1314-84-7	420	4.55 SCDM	0.000 HSDB	NA	NA	1.162E-02 Calculated	1.346E-05 Calculated	6.200E+01 SCDM	1.376E-09	#	#	#
Zineb	12122-67-7	100 Pest.Man.	1.74 HSDB	1.000E+01 HSDB	1.23E+03 HSDB	2.900E-09 Calculated	1.604E-02 Calculated	7.266E-06 Calculated	7.380E+00	6.180E-09	1.979E+06	8.848E+05	1.806E+06

Table 4
Chemical Specific Values

Contaminant	Values from Reference Sources								Calculated Values ***				
	CAS#	MP	d (g/cm3)	S (mg/L)	Koc(L/kg)	H(atm-m3/mol)	Di(cm2/s)**	Dw(cm2/s)**	Kd(L/kg)*	Da(cm2/s)	Volatilization Factor (m3/kg)		
											Resident	Child	Industrial

* Kd values listed are calculated as Koc multiplied by an Foc of 0.006 (for volatilization) except in cases where an inorganic Kd values, if available, is used. For Leachability calculation, Kd should be calculated as Koc multiplied by an Foc of 0.002.

** For most compounds the diffusion coefficients in air (Di) and water (Dw) were taken from the values listed in CHEMDAT8 Appendix C. When values were not available from this source, Di and Dw were calculated using equations 2-5 (Di) and 2-6 (Dw) from the documentation for the CHEMDAT8 database.

*** All calculations are carried out without intermediate rounding, Da values have been rounded to two significant figures and VF values have been rounded to three significant figures for presentation in this Table.

N/A = Not available at time of rule adoption

= Volatilization factors not relevant for these compounds

Reference sources for chemical/physical data:

SCDM = SuperfundChemical Data Matrix

SSG = Soil Screening Guidance for Superfund - Note: The SSG leachability value was calculated using a Kd value different than reported in SCDM

HSDB = Hazardous Substances Data Bank

HSDB-GeoMean = A range of values was reported in HSDB. The value shown is the geometric mean of these values.

Chem8 = CHEMDAT8 Database (EPA/453/C-94080B)

Calculated= - Density estimated using Girolami's Method as illustrated in: Baum, E.J. Chemical Property Estimation, 1998

- Henery' Law Constants (HLC) estimated using equation 68 [HLC = (VP)(M)/(S)] in the USEPA SSG, 1996

ATSDR = Agency for Toxic Substances and Disease Registry Toxicant Profiles

CRC = CRC Handbook of Chemistry and Physics, 75th edition, 1994

Howard = Howard, P.H. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volumes I-V, 1989

Howard and Meylan = Howard, P.H. and Meylan, W.M. (eds.) Handbook of Physical properties of Organic Chemicals , 1997

MacKay = MaKay, D., et al. Illustrated Handbook of Physical-Chemical Properties

Merck = The Merck Index, 11th edition, 1989

Pest.Man. = Worthing, C.R. (ed.) The Pesticide Manual, 8th Edition, 1987

Verschueren = Verschueren, K. Handbook of Environmental Data on Organic Chemicals, 3rd Edition, 1996

Versch. est., HSDB est., ATSDR est., For MP: If an exact MP for a chemical was not found in any of the reference sources , but a source listed it as a liquid, a default MP of -9.9 degrees C was assigned.

Surrogate (a): Surrogate density based on benzo(a)pyrene

Surrogate (b): Surrogate density based on 2,4-dichlorophenol

Surrogate (c): Surrogate density based on hexachlorocyclohexane, beta

Surrogate (d): Surrogate density based on phenylenediamine, m

Table 5a
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminant	GI Absorption	Cancer Class	CSF ₀ 1/(mg/kg/day)	CSF _i 1/(mg/kg/day)	CSF _d 1/(mg/kg/day)
Acephate	1 RAGS-E	C	8.700E-03 <i>IRIS</i> <i>extrapolated</i>	8.700E-03 <i>extrapolated</i>	8.700E-03 <i>extrapolated</i>
Acrylamide	1 RAGS-E	B2	4.500E+00 <i>IRIS</i> <i>extrapolated*</i>	4.550E+00 <i>extrapolated*</i>	4.500E+00 <i>extrapolated</i>
Acrylonitrile	1 RAGS-E	B1	5.400E-01 <i>IRIS</i> <i>extrapolated*</i>	2.380E-01 <i>extrapolated*</i>	5.400E-01 <i>extrapolated</i>
Alachlor	1 RAGS-E	B2	8.000E-02 <i>HEAST</i>	8.000E-02 <i>extrapolated</i>	8.000E-02 <i>extrapolated</i>
Aldrin	1 HSDB	B2	1.700E+01 <i>IRIS</i> <i>extrapolated*</i>	1.715E+01 <i>extrapolated*</i>	1.700E+01 <i>extrapolated</i>
Aniline	1 RAGS-E	B2	5.700E-03 <i>IRIS</i> <i>extrapolated</i>	5.700E-03 <i>extrapolated</i>	5.700E-03 <i>extrapolated</i>
Arsenic	0.95 ATSDR	A	1.500E+00 <i>IRIS</i> <i>extrapolated*</i>	1.505E+01 <i>extrapolated*</i>	1.579E+00 <i>extrapolated</i>
Atrazine	1 RAGS-E	C	2.200E-01 <i>HEAST</i>	2.200E-01 <i>extrapolated</i>	2.200E-01 <i>extrapolated</i>
Azobenzene	1 RAGS-E	B2	1.100E-01 <i>IRIS</i> <i>extrapolated*</i>	1.085E-01 <i>extrapolated*</i>	1.100E-01 <i>extrapolated</i>
Benzene	0.9 ATSDR	A	2.900E-02 <i>IRIS</i> <i>extrapolated*</i>	2.730E-02 <i>extrapolated*</i>	3.222E-02 <i>extrapolated</i>
Benzo(a)anthracene	0.5 ATSDR	B2	7.300E-01 <i>NCEA</i>	3.100E-01 <i>NCEA</i>	1.460E+00 <i>extrapolated</i>
Benzo(a)pyrene	0.5 ATSDR	B2	7.300E+00 <i>IRIS</i>	3.100E+00 <i>NCEA</i>	1.460E+01 <i>extrapolated</i>
Benzo(b)fluoranthene	0.5 ATSDR	B2	7.300E-01 <i>NCEA</i>	3.100E-01 <i>NCEA</i>	1.460E+00 <i>extrapolated</i>
Benzo(k)fluoranthene	0.5 ATSDR	B2	7.300E-02 <i>NCEA</i>	3.100E-02 <i>NCEA</i>	1.460E-01 <i>extrapolated</i>
Benzotrichloride	1 RAGS-E	B2	1.300E+01 <i>IRIS</i> <i>extrapolated</i>	1.300E+01 <i>extrapolated</i>	1.300E+01 <i>extrapolated</i>
Benzyl chloride	1 RAGS-E	B2	1.700E-01 <i>IRIS</i> <i>extrapolated</i>	1.700E-01 <i>extrapolated</i>	1.700E-01 <i>extrapolated</i>
Beryllium	0.006 ATSDR	B1	0.000E+00	8.400E+00 <i>extrapolated*</i>	0.000E+00
Bis(2-chloroethyl)ether	0.98 ATSDR	B2	1.100E+00 <i>IRIS</i> <i>extrapolated*</i>	1.155E+00 <i>extrapolated*</i>	1.122E+00 <i>extrapolated</i>
Bis(2-chloroisopropyl)ether	1 RAGS-E	C	7.000E-02 <i>HEAST</i>	3.500E-02 <i>HEAST</i>	7.000E-02 <i>extrapolated</i>
Bis(2-ethylhexyl)phthalate [or DEHP]	1 RAGS-E	B2	1.400E-02 <i>IRIS</i> <i>extrapolated</i>	1.400E-02 <i>extrapolated</i>	1.400E-02 <i>extrapolated</i>
Bromodichloromethane	0.98 ATSDR	B2	6.200E-02 <i>IRIS</i> <i>extrapolated</i>	6.327E-02 <i>extrapolated</i>	6.327E-02 <i>extrapolated</i>
Bromoform	0.75 ATSDR	B2	7.900E-03 <i>IRIS</i> <i>extrapolated*</i>	3.850E-03 <i>extrapolated*</i>	1.053E-02 <i>extrapolated</i>
Cadmium	0.044 ATSDR	B1	0.000E+00	6.300E+00 <i>extrapolated*</i>	0.000E+00
Captan	1 RAGS-E	B2	3.500E-03 <i>HEAST</i> <i>extrapolated</i>	3.500E-03 <i>extrapolated</i>	3.500E-03 <i>extrapolated</i>
Carbazole	1 RAGS-E	B2	2.000E-02 <i>HEAST</i> <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>
Carbon tetrachloride	0.85 ATSDR	B2	1.300E-01 <i>IRIS</i> <i>extrapolated*</i>	5.250E-02 <i>extrapolated*</i>	1.529E-01 <i>extrapolated</i>
Chlordane	0.8 ATSDR	B2	3.500E-01 <i>IRIS</i> <i>extrapolated*</i>	3.500E-01 <i>extrapolated*</i>	4.375E-01 <i>extrapolated</i>
Chlorobenzilate	0.57 HSDB	B2	2.700E-01 <i>HEAST</i>	2.700E-01 <i>HEAST</i>	4.737E-01 <i>extrapolated</i>
Chloroethane [or Ethyl chloride]	1 RAGS-E		2.900E-03 <i>NCEA</i>	2.900E-03 <i>extrapolated</i>	2.900E-03 <i>extrapolated</i>

Table 5a
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminant	GI Absorption	Cancer Class	CSF ₀ 1/(mg/kg/day)	CSF _i 1/(mg/kg/day)	CSF _d 1/(mg/kg/day)
Chloroform	1 ATSDR	B2	6.100E-03 <i>IRIS</i> <i>extrapolated*</i>	8.050E-02 <i>extrapolated*</i>	6.100E-03 <i>extrapolated*</i>
Chloromethane	1 RAGS-E	C	1.300E-02 <i>HEAST</i> <i>NCEA</i>	3.500E-03 <i>extrapolated*</i>	1.300E-02 <i>extrapolated*</i>
Chloronitrobenzene, p-	1 RAGS-E	B2	1.800E-02 <i>HEAST</i>	1.800E-02 <i>extrapolated*</i>	1.800E-02 <i>extrapolated*</i>
Chlorothalonil [or Bravo]	1 RAGS-E	B2	1.100E-02 <i>HEAST</i>	1.100E-02 <i>extrapolated*</i>	1.100E-02 <i>extrapolated*</i>
Chromium (hexavalent)	0.01 ATSDR	A	0.000E+00	4.200E+01 <i>extrapolated*</i>	0.000E+00
Chrysene	0.5 ATSDR	B2	7.300E-03 <i>NCEA</i>	3.100E-03 <i>NCEA</i>	1.460E-02 <i>extrapolated*</i>
Crotonaldehyde	1 RAGS-E	C	1.900E+00 <i>HEAST</i>	1.900E+00 <i>extrapolated*</i>	1.900E+00 <i>extrapolated*</i>
DDD, 4,4'-	0.8 ATSDR	B2	2.400E-01 <i>IRIS</i>	3.000E-01 <i>extrapolated*</i>	3.000E-01 <i>extrapolated*</i>
DDE, 4,4'-	0.8 ATSDR	B2	3.400E-01 <i>IRIS</i>	4.250E-01 <i>extrapolated*</i>	4.250E-01 <i>extrapolated*</i>
DDT, 4,4'-	0.8 ATSDR	B2	3.400E-01 <i>IRIS</i>	3.395E-01 <i>extrapolated*</i>	4.250E-01 <i>extrapolated*</i>
Diallate	1 RAGS-E	B2	6.100E-02 <i>HEAST</i>	6.100E-02 <i>extrapolated*</i>	6.100E-02 <i>extrapolated*</i>
Dibenz(a,h)anthracene	0.5 ATSDR	B2	7.300E+00 <i>NCEA</i>	1.460E+01 <i>extrapolated*</i>	1.460E+01 <i>extrapolated*</i>
Dibromo-3-chloropropane, 1-2- [or DBCP]	1 RAGS-E	B2	1.400E+00 <i>HEAST</i>	2.415E-03 <i>extrapolated*</i>	1.400E+00 <i>extrapolated*</i>
Dibromochloromethane	0.75 ATSDR	C	8.400E-02 <i>IRIS</i>	1.120E-01 <i>extrapolated*</i>	1.120E-01 <i>extrapolated*</i>
Dibromoethane, 1,2- [or EDB]	0.98 ATSDR	B2	8.500E+01 <i>IRIS</i>	7.700E-01 <i>extrapolated*</i>	8.673E+01 <i>extrapolated*</i>
Dichlorobenzene, 1,4-	1 ATSDR	C	2.400E-02 <i>HEAST</i>	2.200E-02 <i>NCEA</i>	2.400E-02 <i>extrapolated*</i>
Dichlorobenzidine, 3,3'-	1 RAGS-E	B2	4.500E-01 <i>IRIS</i>	4.500E-01 <i>extrapolated*</i>	4.500E-01 <i>extrapolated*</i>
Dichloroethane, 1,2- [or EDC]	1 ATSDR	B2	9.100E-02 <i>IRIS</i>	9.100E-02 <i>extrapolated*</i>	9.100E-02 <i>extrapolated*</i>
Dichloroethene, 1,1-	1 ATSDR	C	6.000E-01 <i>IRIS</i>	1.750E-01 <i>extrapolated*</i>	6.000E-01 <i>extrapolated*</i>
Dichloropropane, 1,2-	1 ATSDR	B2	6.800E-02 <i>HEAST</i>	6.800E-02 <i>extrapolated*</i>	6.800E-02 <i>extrapolated*</i>
Dichloropropene, 1,3-	0.98 ATSDR	B2	1.000E-01 <i>IRIS</i>	1.400E-02 <i>extrapolated*</i>	1.020E-01 <i>extrapolated*</i>
Dichlorvos	0.96 HSDB	B2	2.900E-01 <i>IRIS</i>	3.021E-01 <i>extrapolated*</i>	3.021E-01 <i>extrapolated*</i>
Dicofol [or Kelthane]	1 RAGS-E		4.400E-01 <i>IRIS-WD</i>	4.400E-01 <i>extrapolated*</i>	4.400E-01 <i>extrapolated*</i>
Dieldrin	1 HSDB	B2	1.600E+01 <i>IRIS</i>	1.610E+01 <i>extrapolated*</i>	1.600E+01 <i>extrapolated*</i>
Dinitrotoluene, 2,4-	1 HSDB	B2	6.800E-01 <i>IRIS</i>	6.800E-01 <i>extrapolated*</i>	6.800E-01 <i>extrapolated*</i>
Dinitrotoluene, 2,6-	1 RAGS-E	B2	6.800E-01 <i>IRIS</i>	6.800E-01 <i>extrapolated*</i>	6.800E-01 <i>extrapolated*</i>
Dioxane, 1,4-	1 RAGS-E	B2	1.100E-02 <i>IRIS</i>	1.100E-02 <i>extrapolated*</i>	1.100E-02 <i>extrapolated*</i>
Dioxin [or 2,3,7,8-TCDD]	0.9	B2	1.500E+05 <i>HEAST</i>	1.155E+05 <i>extrapolated*</i>	1.667E+05 <i>extrapolated*</i>
Diphenylhydrazine, 1,2-	1 RAGS-E	B2	8.000E-01 <i>IRIS</i>	7.700E-01 <i>extrapolated*</i>	8.000E-01 <i>extrapolated*</i>

Table 5a
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminant	GI Absorption	Cancer Class	CSF ₀ 1/(mg/kg/day)	CSF _i 1/(mg/kg/day)	CSF _d 1/(mg/kg/day)
Epichlorohydrin	1 RAGS-E	B2	9.900E-03 <i>IRIS</i> <i>extrapolated*</i>	4.200E-03 <i>extrapolated</i>	9.900E-03 <i>extrapolated</i>
Ethyl acrylate	1 RAGS-E	B2	4.800E-02 <i>HEAST</i>	4.800E-02 <i>extrapolated</i>	4.800E-02 <i>extrapolated</i>
Ethylene oxide	1 RAGS-E	B1	1.020E+00 <i>HEAST</i>	3.500E-01 <i>extrapolated*</i>	1.020E+00 <i>extrapolated</i>
Formaldehyde	1 RAGS-E	B1	0.000E+00	4.550E-02 <i>extrapolated*</i>	0.000E+00
Heptachlor	0.8 ATSDR	B2	4.500E+00 <i>IRIS</i> <i>extrapolated*</i>	4.550E+00 <i>extrapolated</i>	5.625E+00 <i>extrapolated</i>
Heptachlor epoxide	0.4 ATSDR	B2	9.100E+00 <i>IRIS</i> <i>extrapolated*</i>	9.100E+00 <i>extrapolated</i>	2.275E+01 <i>extrapolated</i>
Hexachloro-1,3-butadiene	1 ATSDR	C	7.800E-02 <i>IRIS</i> <i>extrapolated*</i>	7.700E-02 <i>extrapolated*</i>	7.800E-02 <i>extrapolated</i>
Hexachlorobenzene	0.8 ATSDR	B2	1.600E+00 <i>IRIS</i> <i>extrapolated*</i>	1.610E+00 <i>extrapolated*</i>	2.000E+00 <i>extrapolated</i>
Hexachlorocyclohexane, alpha-	0.974 ATSDR	B2	6.300E+00 <i>IRIS</i> <i>extrapolated*</i>	6.300E+00 <i>extrapolated*</i>	6.468E+00 <i>extrapolated</i>
Hexachlorocyclohexane, beta-	0.907 ATSDR	C	1.800E+00 <i>IRIS</i> <i>extrapolated*</i>	1.855E+00 <i>extrapolated*</i>	1.985E+00 <i>extrapolated</i>
Hexachlorocyclohexane, gamma-[or Lindane]	0.994 ATSDR	B2-C	1.300E+00 <i>HEAST</i>	1.308E+00 <i>extrapolated</i>	1.308E+00 <i>extrapolated</i>
Hexachloroethane	1 RAGS-E	C	1.400E-02 <i>IRIS</i> <i>extrapolated*</i>	1.400E-02 <i>extrapolated*</i>	1.400E-02 <i>extrapolated</i>
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	1 RAGS-E	C	1.100E-01 <i>IRIS</i> <i>extrapolated</i>	1.100E-01 <i>extrapolated</i>	1.100E-01 <i>extrapolated</i>
Indeno(1,2,3-cd)pyrene	0.5 ATSDR	B2	7.300E-01 <i>NCEA</i>	3.100E-01 <i>NCEA</i>	1.460E+00 <i>extrapolated</i>
Isophorone	1 RAGS-E	C	9.500E-04 <i>IRIS</i> <i>extrapolated</i>	9.500E-04 <i>extrapolated</i>	9.500E-04 <i>extrapolated</i>
Methoxy-5-nitroaniline, 2-	1 RAGS-E	B2	4.600E-02 <i>HEAST</i>	4.600E-02 <i>extrapolated</i>	4.600E-02 <i>extrapolated</i>
Methylaniline, 2-	1 RAGS-E	B2	2.400E-01 <i>HEAST</i>	2.400E-01 <i>extrapolated</i>	2.400E-01 <i>extrapolated</i>
Methylene bis(2-chloroaniline), 4,4-	1 RAGS-E	B2	1.300E-01 <i>HEAST</i>	1.295E-01 <i>extrapolated*</i>	1.300E-01 <i>extrapolated</i>
Methylene chloride	1 ATSDR	B2	7.500E-03 <i>IRIS</i> <i>extrapolated*</i>	1.645E-03 <i>extrapolated*</i>	7.500E-03 <i>extrapolated</i>
Nitroglycerin	0.1 ProfJudge		1.400E-02 <i>NCEA</i> <i>extrapolated</i>	1.400E-01 <i>extrapolated</i>	1.400E-01 <i>extrapolated</i>
Nitroso-diethylamine, N-	1 RAGS-E	B2	1.500E+02 <i>IRIS</i> <i>extrapolated*</i>	1.505E+02 <i>extrapolated*</i>	1.500E+02 <i>extrapolated</i>
Nitroso-dimethylamine, N-	1 RAGS-E	B2	5.100E+01 <i>IRIS</i> <i>extrapolated*</i>	4.900E+01 <i>extrapolated*</i>	5.100E+01 <i>extrapolated</i>
Nitroso-di-n-butylamine, N-	1 RAGS-E	B2	5.400E+00 <i>IRIS</i> <i>extrapolated*</i>	5.600E+00 <i>extrapolated*</i>	5.400E+00 <i>extrapolated</i>
Nitroso-di-n-propylamine, N-	0.475 ATSDR	B2	7.000E+00 <i>IRIS</i> <i>extrapolated</i>	1.474E+01 <i>extrapolated</i>	1.474E+01 <i>extrapolated</i>
Nitroso-diphenylamine, N-	1 RAGS-E	B2	4.900E-03 <i>IRIS</i> <i>extrapolated</i>	4.900E-03 <i>extrapolated</i>	4.900E-03 <i>extrapolated</i>
Nitroso-N-methylethylamine, N-	1 RAGS-E	B2	2.200E+01 <i>IRIS</i> <i>extrapolated</i>	2.200E+01 <i>extrapolated</i>	2.200E+01 <i>extrapolated</i>
PCBs [Aroclor mixture]	1 RAGS-E	B2	2.000E+00 <i>IRIS</i>	2.000E+00 <i>IRIS</i> <i>extrapolated</i>	2.000E+00 <i>extrapolated</i>
Pentachloronitrobenzene	1 RAGS-E	C	2.600E-01 <i>HEAST</i>	2.600E-01 <i>extrapolated</i>	2.600E-01 <i>extrapolated</i>
Pentachlorophenol	0.5 ATSDR	B2	1.200E-01 <i>IRIS</i> <i>extrapolated</i>	2.400E-01 <i>extrapolated</i>	2.400E-01 <i>extrapolated</i>

Table 5a
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminant	GI Absorption	Cancer Class	CSF ₀ 1/(mg/kg/day)	CSF _i 1/(mg/kg/day)	CSF _d 1/(mg/kg/day)
Phenylphenol, 2-	1 <i>RAGS-E</i>	C	1.940E-03 <i>HEAST</i>	1.940E-03 <i>extrapolated</i>	1.940E-03 <i>extrapolated</i>
Propylene oxide	1 <i>RAGS-E</i>	B2	2.400E-01 <i>IRIS</i>	1.295E-02 <i>extrapolated*</i>	2.400E-01 <i>extrapolated</i>
Simazine	1 <i>RAGS-E</i>	C	1.200E-01 <i>HEAST</i>	1.200E-01 <i>extrapolated</i>	1.200E-01 <i>extrapolated</i>
Tetrachloroethane, 1,1,1,2-	1 <i>RAGS-E</i>	C	2.600E-02 <i>IRIS</i>	2.590E-02 <i>extrapolated*</i>	2.600E-02 <i>extrapolated</i>
Tetrachloroethane, 1,1,2,2-	0.7 <i>ATSDR</i>	C	2.000E-01 <i>IRIS</i>	2.030E-01 <i>extrapolated*</i>	2.857E-01 <i>extrapolated</i>
Tetrachloroethylene [or PCE]	1 <i>ATSDR</i>	C-B2	5.200E-02 <i>NCEA</i>	2.000E-03 <i>NCEA</i>	5.200E-02 <i>extrapolated</i>
Toluidine, p-	1 <i>RAGS-E</i>	C	1.900E-01 <i>HEAST</i>	1.900E-01 <i>extrapolated</i>	1.900E-01 <i>extrapolated</i>
Toxaphene	0.63 <i>HSDB</i>	B2	1.100E+00 <i>IRIS</i>	1.120E+00 <i>extrapolated*</i>	1.746E+00 <i>extrapolated</i>
Trichloroethane, 1,1,2-	0.81 <i>ATSDR</i>	C	5.700E-02 <i>IRIS</i>	5.600E-02 <i>extrapolated*</i>	7.037E-02 <i>extrapolated</i>
Trichloroethene [or TCE]	0.945 <i>ATSDR</i>	B2	1.100E-02 <i>NCEA</i>	6.000E-03 <i>NCEA</i>	1.164E-02 <i>extrapolated</i>
Trichlorophenol, 2,4,6-	1 <i>RAGS-E</i>	B2	1.100E-02 <i>IRIS</i>	1.085E-02 <i>extrapolated*</i>	1.100E-02 <i>extrapolated</i>
Trichloropropane, 1,2,3-	1 <i>RAGS-E</i>	B2	7.000E+00 <i>HEAST</i>	7.000E+00 <i>extrapolated</i>	7.000E+00 <i>extrapolated</i>
Trifluralin	0.2 <i>HSDB</i>	C	7.700E-03 <i>IRIS</i>	3.850E-02 <i>extrapolated</i>	3.850E-02 <i>extrapolated</i>
Trimethyl phosphate	1 <i>RAGS-E</i>	B2	3.700E-02 <i>HEAST</i>	3.700E-02 <i>extrapolated</i>	3.700E-02 <i>extrapolated</i>
Trinitrotoluene, 2,4,6-	1 <i>RAGS-E</i>	C	3.000E-02 <i>IRIS</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>
Vinyl chloride	0.875 <i>ATSDR</i>	A	1.900E+00 <i>HEAST</i>	2.940E-01 <i>extrapolated*</i>	2.171E+00 <i>extrapolated</i>

extrapolated = Extrapolated from a slope factor for another route of administration

extrapolated* = Extrapolated from an inhalation unit risk

Reference sources for toxicity data:

IRIS: U.S.EPA's Integrated Risk Information System

HEAST: U.S.EPA's Health Effects Assessment Summary Tables

NCEA: National Center for Environmental Assessment

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Acenaphthene	0.5 ATSDR	6.000E-02 <i>IRIS Low</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Liver
Acenaphthylene	1 RAGS-E	3.000E-02 <i>Surrogate (a)</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Body Weight -Liver
Acephate	1 RAGS-E	4.000E-03 <i>IRIS High</i>	4.000E-03 <i>extrapolated</i>	4.000E-03 <i>extrapolated</i>	-Carcinogen -Neurological
Acetone	1 RAGS-E	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Kidney -Liver -Neurological
Acetonitrile	1 RAGS-E	6.000E-03 <i>IRIS-WD</i>	1.714E-02 <i>extrapolated* Medium</i>	6.000E-03 <i>extrapolated</i>	-Blood -Liver
Acetophenone	1 RAGS-E	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-None Specified
Acrolein	1 RAGS-E	2.000E-02 <i>HEAST</i>	5.714E-06 <i>extrapolated* Medium</i>	2.000E-02 <i>extrapolated</i>	-Nasal
Acrylamide	1 RAGS-E	2.000E-04 <i>IRIS Medium</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Carcinogen -Neurological
Acrylonitrile	1 RAGS-E	1.000E-03 <i>HEAST</i>	5.714E-04 <i>extrapolated* Medium</i>	1.000E-03 <i>extrapolated</i>	-Carcinogen -Nasal -Reproductive
Alachlor	1 RAGS-E	1.000E-02 <i>IRIS High</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Blood -Carcinogen
Aldicarb [or Temik]	1 HSDB	1.000E-03 <i>IRIS Medium</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Neurological
Aldrin	1 HSDB	3.000E-05 <i>IRIS Medium</i>	3.000E-05 <i>extrapolated</i>	3.000E-05 <i>extrapolated</i>	-Carcinogen -Liver
Allyl alcohol	1 RAGS-E	5.000E-03 <i>IRIS Low</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Kidney -Liver
Aluminum	0.04 ATSDR	1.000E+00 <i>NCEA</i>	1.400E-03 <i>NCEA</i>	4.000E-02 <i>extrapolated</i>	-Body Weight

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Aluminum phosphide	1 <i>RAGS-E</i>	4.000E-04 <i>IRIS Medium</i>	4.000E-04 <i>extrapolated</i>	4.000E-04 <i>extrapolated</i>	-Body Weight
Ametryn	0.679 <i>HSDB</i>	9.000E-03 <i>IRIS Low</i>	6.111E-03 <i>extrapolated</i>	6.111E-03 <i>extrapolated</i>	-Liver
Ammonia	1 <i>RAGS-E</i>	4.000E-01 <i>ATSDR</i>	2.857E-02 <i>extrapolated* Medium</i>	4.000E-01 <i>extrapolated</i>	-Respiratory
Ammonia (as total)	1 <i>RAGS-E</i>	4.000E-01 <i>ATSDR</i>	2.857E-02 <i>extrapolated* Medium</i>	4.000E-01 <i>extrapolated</i>	-Respiratory
Aniline	1 <i>RAGS-E</i>	2.857E-04 <i>extrapolated</i>	2.857E-04 <i>extrapolated* Low</i>	2.857E-04 <i>extrapolated</i>	-Blood -Carcinogen
Anthracene	0.5 <i>ATSDR</i>	3.000E-01 <i>IRIS Low</i>	1.500E-01 <i>extrapolated</i>	1.500E-01 <i>extrapolated</i>	-None Specified
Antimony	0.01 <i>ATSDR</i>	4.000E-04 <i>IRIS Low</i>	4.000E-06 <i>extrapolated</i>	4.000E-06 <i>extrapolated</i>	-Blood -Mortality
Arsenic	0.95 <i>ATSDR</i>	3.000E-04 <i>IRIS Medium</i>	2.850E-04 <i>extrapolated</i>	2.850E-04 <i>extrapolated</i>	-Carcinogen -Cardiovascular -Skin
Atrazine	1 <i>RAGS-E</i>	3.500E-02 <i>IRIS High</i>	3.500E-02 <i>extrapolated</i>	3.500E-02 <i>extrapolated</i>	-Body Weight -Carcinogen
Barium	0.07 <i>RAGS-E</i>	7.000E-02 <i>IRIS Medium</i>	1.429E-04 <i>extrapolated*</i>	4.900E-03 <i>extrapolated</i>	-Cardiovascular
Bayleton	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS High</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Blood -Body Weight
Benomyl	0.665 <i>HSDB</i>	5.000E-02 <i>IRIS High</i>	3.325E-02 <i>extrapolated</i>	3.325E-02 <i>extrapolated</i>	-Developmental
Bentazon	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS Medium</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Blood
Benzaldehyde	1 <i>RAGS-E</i>	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Gastrointestinal -Kidney

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Benzene	0.9 ATSDR	3.000E-03 <i>NCEA</i>	1.700E-03 <i>NCEA</i>	2.700E-03 <i>extrapolated</i>	-Carcinogen
Benzenethiol	1 RAGS-E	1.000E-05 <i>HEAST</i>	1.000E-05 <i>extrapolated</i>	1.000E-05 <i>extrapolated</i>	-Liver
Benzo(g,h,i)perylene	0.5 ATSDR	3.000E-02 <i>Surrogate (a)</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Neurological
Benzoic acid	1 HSDB	4.000E+00 <i>IRIS Medium</i>	4.000E+00 <i>extrapolated</i>	4.000E+00 <i>extrapolated</i>	-None Specified
Benzyl alcohol	1 RAGS-E	3.000E-01 <i>HEAST</i>	NA	NA	-Gastrointestinal
Beryllium	0.006 ATSDR	2.000E-03 <i>IRIS Medium</i>	5.714E-03 <i>extrapolated* Medium</i>	1.200E-05 <i>extrapolated</i>	-Carcinogen -Gastrointestinal -Respiratory
Bidrin [or Dicrotophos]	1 RAGS-E	1.000E-04 <i>IRIS Low</i>	1.000E-04 <i>extrapolated</i>	1.000E-04 <i>extrapolated</i>	-Developmental
Biphenyl, 1,1- [or Diphenyl]	1 RAGS-E	5.000E-02 <i>IRIS Medium</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Kidney
Bis(2-chloroisopropyl)ether	1 RAGS-E	4.000E-02 <i>IRIS Low</i>	4.000E-02 <i>extrapolated</i>	4.000E-02 <i>extrapolated</i>	-Blood -Carcinogen
Bis(2-ethylhexyl)phthalate [or DEHP]	1 RAGS-E	2.000E-02 <i>IRIS Medium</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Carcinogen -Liver
Bisphenol A	1 RAGS-E	5.000E-02 <i>IRIS High</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Body Weight
Boron	1 RAGS-E	9.000E-02 <i>IRIS Medium</i>	5.714E-03 <i>extrapolated*</i>	9.000E-02 <i>extrapolated</i>	-Reproductive -Respiratory
Bromacil	1 RAGS-E	1.000E-01 <i>OPP</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Body Weight
Bromochloromethane	1 RAGS-E	1.300E-02 <i>HAL</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-None Specified

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Bromodichloromethane	0.98 ATSDR	2.000E-02 <i>IRIS Medium</i>	1.960E-02 <i>extrapolated</i>	1.960E-02 <i>extrapolated</i>	-Carcinogen -Kidney
Bromoform	0.75 ATSDR	2.000E-02 <i>IRIS Medium</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Carcinogen -Liver
Bromomethane [or Methyl bromide]	1 RAGS-E	1.400E-03 <i>IRIS Medium</i>	1.429E-03 <i>extrapolated*</i>	1.400E-03 <i>extrapolated</i>	-Gastrointestinal
Butanol, 1-	1 RAGS-E	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Neurological
Butanone, 2- [or MEK]	1 RAGS-E	6.000E-01 <i>IRIS Low</i>	2.857E-01 <i>extrapolated* Low</i>	6.000E-01 <i>extrapolated</i>	-Developmental
Butyl benzyl phthalate, n-	1 HSDB	2.000E-01 <i>IRIS Low</i>	2.000E-01 <i>extrapolated</i>	2.000E-01 <i>extrapolated</i>	-Liver
Butylate	1 RAGS-E	5.000E-02 <i>IRIS High</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Liver
Butylphthalyl butylglycolate	1 RAGS-E	1.000E+00 <i>IRIS Low</i>	1.000E+00 <i>extrapolated</i>	1.000E+00 <i>extrapolated</i>	-None Specified
Cadmium	0.044 ATSDR	1.000E-03 <i>IRIS High</i>	5.700E-05 <i>NCEA</i>	4.400E-05 <i>extrapolated</i>	-Carcinogen -Kidney
Calcium cyanide	1 RAGS-E	4.000E-02 <i>IRIS Medium</i>	4.000E-02 <i>extrapolated</i>	4.000E-02 <i>extrapolated</i>	-Body Weight -Neurological -Thyroid
Captan	1 RAGS-E	1.300E-01 <i>IRIS High</i>	1.300E-01 <i>extrapolated</i>	1.300E-01 <i>extrapolated</i>	-Body Weight -Carcinogen
Carbaryl [or Sevin]	0.98 HSDB	1.000E-01 <i>IRIS Medium</i>	9.800E-02 <i>extrapolated</i>	9.800E-02 <i>extrapolated</i>	-Kidney -Liver
Carbofuran	1 RAGS-E	5.000E-03 <i>IRIS High</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Neurological -Reproductive
Carbon disulfide	1 RAGS-E	1.000E-01 <i>IRIS Medium</i>	2.000E-01 <i>extrapolated* Medium</i>	1.000E-01 <i>extrapolated</i>	-Developmental -Neurological

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Carbon tetrachloride	0.85 ATSDR	7.000E-04 <i>IRIS Medium</i>	5.714E-04 <i>extrapolated*</i>	5.950E-04 <i>extrapolated</i>	-Carcinogen -Liver
Carbophenothion [or Trithion]	1 RAGS-E	1.300E-04 <i>OPP</i>	1.300E-04 <i>extrapolated</i>	1.300E-04 <i>extrapolated</i>	-Neurological
Chlordane	0.8 ATSDR	5.000E-04 <i>IRIS Medium</i>	2.000E-04 <i>extrapolated* Low</i>	4.000E-04 <i>extrapolated</i>	-Carcinogen -Liver
Chlorine	1 RAGS-E	1.000E-01 <i>IRIS Medium</i>	5.700E-05 <i>NCEA</i>	NA	-Body Weight
Chlorine cyanide [or Cyanogen chloride]	1 RAGS-E	5.000E-02 <i>IRIS Medium</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Body Weight -Neurological -Thyroid
Chloro-1,3-butadiene [or Chloroprene]	1 RAGS-E	2.000E-02 <i>HEAST</i>	2.000E-03 <i>extrapolated*</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Hair Loss -Nasal
Chloroacetic acid	1 RAGS-E	2.000E-03 <i>HEAST</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Cardiovascular
Chloroaniline, 4-	1 RAGS-E	4.000E-03 <i>IRIS Low</i>	4.000E-03 <i>extrapolated</i>	4.000E-03 <i>extrapolated</i>	-Spleen
Chlorobenzene	0.31 ATSDR	2.000E-02 <i>IRIS Medium</i>	1.700E-02 <i>NCEA</i>	6.200E-03 <i>extrapolated</i>	-Liver
Chlorobenzilate	0.57 HSDB	2.000E-02 <i>IRIS Medium</i>	1.140E-02 <i>extrapolated</i>	1.140E-02 <i>extrapolated</i>	-Body Weight -Carcinogen
Chloroethane [or Ethyl chloride]	1 RAGS-E	4.000E-01 <i>NCEA</i>	2.857E+00 <i>extrapolated* Medium</i>	4.000E-01 <i>extrapolated</i>	-Carcinogen -Developmental
Chloroform	1 ATSDR	1.000E-02 <i>IRIS Medium</i>	8.600E-05 <i>NCEA</i>	1.000E-02 <i>extrapolated</i>	-Carcinogen -Liver
Chloro-m-cresol, p- [or 4-chloro-3-methylphenol]	1 RAGS-E	9.000E-03 <i>OPP</i>	9.000E-03 <i>extrapolated</i>	9.000E-03 <i>extrapolated</i>	-Body Weight
Chloronaphthalene, beta-	1 RAGS-E	8.000E-02 <i>IRIS Low</i>	8.000E-02 <i>extrapolated</i>	8.000E-02 <i>extrapolated</i>	-Liver -Respiratory

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Chlorophenol, 2-	1 <i>RAGS-E</i>	5.000E-03 <i>IRIS Low</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Reproductive
Chlorophenol, 3-	1 <i>RAGS-E</i>	5.000E-03 <i>Surrogate (b)</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-None Specified
Chlorophenol, 4-	1 <i>RAGS-E</i>	5.000E-03 <i>Surrogate (b)</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-None Specified
Chlorothalonal [or Bravo]	1 <i>RAGS-E</i>	1.500E-02 <i>IRIS Medium</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Carcinogen -Kidney
Chlorotoluene, o-	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS Low</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Body Weight
Chlorotoluene, p-	1 <i>RAGS-E</i>	2.000E-02 <i>HAL</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-None Specified
Chlorpropham	1 <i>RAGS-E</i>	2.000E-01 <i>IRIS Medium</i>	2.000E-01 <i>extrapolated</i>	2.000E-01 <i>extrapolated</i>	-Bone Marrow -Kidney -Liver -Spleen
Chlorpyrifos	0.9 <i>HSDB</i>	3.000E-03 <i>IRIS Medium</i>	2.700E-03 <i>extrapolated</i>	2.700E-03 <i>extrapolated</i>	-Neurological
Chromium (hexavalent)	0.01 <i>ATSDR</i>	3.000E-03 <i>IRIS Low</i>	2.857E-05 <i>extrapolated*</i> <i>Low</i>	3.000E-05 <i>extrapolated</i>	-Carcinogen -Respiratory
Cobalt	0.25 <i>HSDB</i>	6.000E-02 <i>NCEA</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Cardiovascular -Immunological -Neurological -
Copper	0.56 <i>ATSDR</i>	3.714E-02 <i>HEAST-extrap.</i>	NA	NA	-Gastrointestinal
Coumaphos	1 <i>RAGS-E</i>	2.500E-04 <i>OPP</i>	2.500E-04 <i>extrapolated</i>	2.500E-04 <i>extrapolated</i>	-Neurological
Cumene [or Isopropyl benzene]	1 <i>RAGS-E</i>	1.000E-01 <i>IRIS Low</i>	1.143E-01 <i>extrapolated*</i> <i>Medium</i>	1.000E-01 <i>extrapolated</i>	-Adrenals -Kidney
Cyanide	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS Medium</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Neurological -Thyroid

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Cyanogen	1 <i>RAGS-E</i>	4.000E-02 <i>IRIS Medium</i>	4.000E-02 <i>extrapolated</i>	4.000E-02 <i>extrapolated</i>	-None Specified
Cycloate	1 <i>RAGS-E</i>	5.000E-03 <i>OPP</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Neurological
Cyclohexanone	1 <i>RAGS-E</i>	5.000E+00 <i>IRIS Medium</i>	5.000E+00 <i>extrapolated</i>	5.000E+00 <i>extrapolated</i>	-Body Weight
Cymene, p	1 <i>RAGS-E</i>	4.000E-03 <i>cal from TLV</i>	4.000E-03 <i>extrapolated*</i>	4.000E-03 <i>extrapolated</i>	
Cypermethrin	1 <i>RAGS-E</i>	1.000E-02 <i>IRIS High</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Gastrointestinal
DDT, 4,4'-	0.8 <i>ATSDR</i>	5.000E-04 <i>IRIS Medium</i>	4.000E-04 <i>extrapolated</i>	4.000E-04 <i>extrapolated</i>	-Carcinogen -Liver
Diallate	1 <i>RAGS-E</i>	5.000E-03 <i>OPP</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Carcinogen
Diazinon	1 <i>RAGS-E</i>	9.000E-04 <i>HEAST</i>	9.000E-04 <i>extrapolated</i>	9.000E-04 <i>extrapolated</i>	-Neurological
Dibenzofuran	1 <i>RAGS-E</i>	4.000E-03 <i>NCEA</i>	4.000E-03 <i>extrapolated</i>	4.000E-03 <i>extrapolated</i>	-None Specified
Dibromo-3-chloropropane, 1-2- [or DBCP]	1 <i>RAGS-E</i>	5.714E-05 <i>extrapolated</i>	5.714E-05 <i>extrapolated*</i> <i>Medium</i>	5.714E-05 <i>extrapolated</i>	-Carcinogen -Reproductive
Dibromochloromethane	0.75 <i>ATSDR</i>	2.000E-02 <i>IRIS Medium</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Carcinogen -Liver
Dibromoethane, 1,2- [or EDB]	0.98 <i>ATSDR</i>	5.831E-05 <i>extrapolated</i>	5.714E-05 <i>extrapolated*</i>	5.714E-05 <i>extrapolated</i>	-Carcinogen -Reproductive
Dibutyl phthalate	1 <i>ATSDR</i>	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Mortality
Dicamba	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS High</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Developmental

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Dichloroacetic acid	1 <i>RAGS-E</i>	4.000E-03 <i>HAL</i>	4.000E-03 <i>extrapolated</i>	4.000E-03 <i>extrapolated</i>	-None Specified
Dichloroacetonitrile	1 <i>RAGS-E</i>	8.000E-03 <i>HAL</i>	8.000E-03 <i>extrapolated</i>	8.000E-03 <i>extrapolated</i>	-None Specified
Dichlorobenzene, 1,2-	1 <i>RAGS-E</i>	9.000E-02 <i>IRIS</i>	5.714E-02 <i>extrapolated*</i>	9.000E-02 <i>extrapolated</i>	-Body Weight
Dichlorobenzene, 1,3-	1 <i>RAGS-E</i>	9.000E-04 <i>NCEA</i>	9.000E-04 <i>extrapolated</i>	9.000E-04 <i>extrapolated</i>	-None Specified
Dichlorobenzene, 1,4-	1 <i>ATSDR</i>	3.000E-02 <i>NCEA</i>	2.286E-01 <i>extrapolated*</i> <i>Medium</i>	3.000E-02 <i>extrapolated</i>	-Carcinogen -Liver
Dichlorodifluoromethane	1 <i>RAGS-E</i>	2.000E-01 <i>IRIS</i> <i>Medium</i>	5.714E-02 <i>extrapolated*</i>	2.000E-01 <i>extrapolated</i>	-Body Weight -Liver
Dichloroethane, 1,1-	1 <i>RAGS-E</i>	1.000E-01 <i>HEAST</i>	1.429E-01 <i>extrapolated*</i>	1.000E-01 <i>extrapolated</i>	-Kidney
Dichloroethene, 1,1-	1 <i>ATSDR</i>	9.000E-03 <i>IRIS</i> <i>Medium</i>	9.000E-03 <i>extrapolated</i>	9.000E-03 <i>extrapolated</i>	-Carcinogen -Liver
Dichloroethene, cis-1,2-	1 <i>RAGS-E</i>	1.000E-02 <i>HEAST</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Blood
Dichloroethene, trans-1,2-	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS</i> <i>Low</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Blood -Liver
Dichlorophenol, 2,3-	1 <i>RAGS-E</i>	3.000E-03 <i>Surrogate (c)</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-None Specified
Dichlorophenol, 2,4-	1 <i>RAGS-E</i>	3.000E-03 <i>IRIS</i> <i>Low</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-Immunological
Dichlorophenol, 2,5-	1 <i>RAGS-E</i>	3.000E-03 <i>Surrogate (c)</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-None Specified
Dichlorophenol, 2,6-	1 <i>RAGS-E</i>	3.000E-03 <i>Surrogate (c)</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-None Specified

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Dichlorophenol, 3,4-	1 <i>RAGS-E</i>	3.000E-03 <i>Surrogate (c)</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-None Specified
Dichlorophenoxy acetic acid, 2,4-	1 <i>HSDB</i>	1.000E-02 <i>IRIS Medium</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Kidney -Liver
Dichloropropane, 1,2-	1 <i>ATSDR</i>	NA	1.143E-03 <i>extrapolated* Medium</i>	NA	-Carcinogen -Nasal
Dichloropropene, 1,3-	0.98 <i>ATSDR</i>	3.000E-02 <i>IRIS High</i>	5.714E-03 <i>extrapolated* High</i>	2.940E-02 <i>extrapolated</i>	-Carcinogen -Kidney -Nasal
Dichlorprop	1 <i>RAGS-E</i>	5.000E-03 <i>OPP</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-None Specified
Dichlorvos	0.96 <i>HSDB</i>	5.000E-04 <i>IRIS Medium</i>	1.429E-04 <i>extrapolated* Medium</i>	4.800E-04 <i>extrapolated</i>	-Carcinogen -Neurological
Dicofol [or Kelthane]	1 <i>RAGS-E</i>	1.200E-03 <i>OPP</i>	1.200E-03 <i>extrapolated</i>	1.200E-03 <i>extrapolated</i>	-Adrenals -Carcinogen
Dieldrin	1 <i>HSDB</i>	5.000E-05 <i>IRIS Medium</i>	5.000E-05 <i>extrapolated</i>	5.000E-05 <i>extrapolated</i>	-Carcinogen -Liver
Diethylphthalate	1 <i>HSDB</i>	8.000E-01 <i>IRIS Low</i>	8.000E-01 <i>extrapolated</i>	8.000E-01 <i>extrapolated</i>	-Body Weight
Dimethoate	1 <i>RAGS-E</i>	2.000E-04 <i>IRIS Medium</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Neurological
Dimethrin	1 <i>RAGS-E</i>	3.000E-01 <i>OPP</i>	3.000E-01 <i>extrapolated</i>	3.000E-01 <i>extrapolated</i>	-Liver
Dimethylformamide, N,N-	1 <i>RAGS-E</i>	1.000E-01 <i>HEAST</i>	8.571E-03 <i>extrapolated* Medium</i>	1.000E-01 <i>extrapolated</i>	-Gastrointestinal -Liver
Dimethylphenol, 2,4-	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS Low</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Blood -Neurological
Dimethylphthalate	1 <i>HSDB</i>	1.000E+01 <i>HEAST-WD</i>	1.000E+01 <i>extrapolated</i>	1.000E+01 <i>extrapolated</i>	-Kidney

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Dinitrobenzene, 1,2- (o)	1 <i>RAGS-E</i>	4.000E-04 <i>HEAST</i>	4.000E-04 <i>extrapolated</i>	4.000E-04 <i>extrapolated</i>	-Spleen
Dinitrobenzene, 1,3- (m)	1 <i>RAGS-E</i>	1.000E-04 <i>IRIS Low</i>	1.000E-04 <i>extrapolated</i>	1.000E-04 <i>extrapolated</i>	-Spleen
Dinitrophenol, 2,4-	1 <i>RAGS-E</i>	2.000E-03 <i>IRIS Low</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Eye
Dinitrotoluene, 2,4-	1 <i>HSDB</i>	2.000E-03 <i>IRIS High</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Carcinogen -Liver -Neurological
Dinitrotoluene, 2,6-	1 <i>RAGS-E</i>	1.000E-03 <i>HEAST</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Blood -Carcinogen -Kidney -Mortality -Neurological
Di-n-octylphthalate	1 <i>RAGS-E</i>	2.000E-02 <i>HEAST</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Kidney -Liver
Dinoseb	1 <i>HSDB</i>	1.000E-03 <i>IRIS Low</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Developmental
Diphenamid	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS Medium</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Liver
Disulfoton	0.939 <i>ATSDR</i>	4.000E-05 <i>IRIS Medium</i>	3.756E-05 <i>extrapolated</i>	3.756E-05 <i>extrapolated</i>	-Neurological
Diuron	0.9 <i>HSDB</i>	2.000E-03 <i>IRIS Low</i>	1.800E-03 <i>extrapolated</i>	1.800E-03 <i>extrapolated</i>	-Blood
Endosulfan	0.815 <i>ATSDR</i>	6.000E-03 <i>IRIS Medium</i>	4.890E-03 <i>extrapolated</i>	4.890E-03 <i>extrapolated</i>	-Body Weight -Cardiovascular -Kidney
Endothall	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS Medium</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Gastrointestinal
Endrin	1 <i>RAGS-E</i>	3.000E-04 <i>IRIS Medium</i>	3.000E-04 <i>extrapolated</i>	3.000E-04 <i>extrapolated</i>	-Liver
Epichlorohydrin	1 <i>RAGS-E</i>	2.000E-03 <i>HEAST</i>	2.857E-04 <i>extrapolated*</i> <i>Medium</i>	2.000E-03 <i>extrapolated</i>	-Carcinogen -Kidney -Nasal

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Ethion	1 <i>HSDB</i>	5.000E-04 <i>IRIS Medium</i>	5.000E-04 <i>extrapolated</i>	5.000E-04 <i>extrapolated</i>	-Neurological
Ethoprop	1 <i>RAGS-E</i>	1.000E-04 <i>OPP</i>	1.000E-04 <i>extrapolated</i>	1.000E-04 <i>extrapolated</i>	-Neurological
Ethoxyethanol, 2-	1 <i>RAGS-E</i>	4.000E-01 <i>HEAST</i>	5.714E-02 <i>extrapolated* Medium</i>	4.000E-01 <i>extrapolated</i>	-Body Weight -Reproductive
Ethyl acetate	1 <i>RAGS-E</i>	9.000E-01 <i>IRIS Low</i>	9.000E-01 <i>extrapolated</i>	9.000E-01 <i>extrapolated</i>	-Body Weight -Mortality
Ethyl dipropylthiocarbamate, S- [or EPTC]	0.96 <i>HSDB</i>	2.500E-02 <i>IRIS Medium</i>	2.400E-02 <i>extrapolated</i>	2.400E-02 <i>extrapolated</i>	-Cardiovascular
Ethyl ether	1 <i>RAGS-E</i>	2.000E-01 <i>IRIS Low</i>	2.000E-01 <i>extrapolated</i>	2.000E-01 <i>extrapolated</i>	-Body Weight
Ethyl methacrylate	1 <i>RAGS-E</i>	9.000E-02 <i>HEAST</i>	9.000E-02 <i>extrapolated</i>	9.000E-02 <i>extrapolated</i>	-Kidney
Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]	1 <i>HSDB</i>	1.000E-05 <i>IRIS Medium</i>	1.000E-05 <i>extrapolated</i>	1.000E-05 <i>extrapolated</i>	-Neurological
Ethylbenzene	1 <i>RAGS-E</i>	1.000E-01 <i>IRIS Low</i>	2.857E-01 <i>extrapolated* Low</i>	1.000E-01 <i>extrapolated</i>	-Developmental -Kidney -Liver
Ethylene diamine	1 <i>RAGS-E</i>	2.000E-02 <i>HEAST</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Blood -Cardiovascular
Ethylene glycol	1 <i>RAGS-E</i>	2.000E+00 <i>IRIS High</i>	2.000E+00 <i>extrapolated</i>	2.000E+00 <i>extrapolated</i>	-Kidney
Fenamiphos	1 <i>RAGS-E</i>	2.500E-04 <i>IRIS High</i>	2.500E-04 <i>extrapolated</i>	2.500E-04 <i>extrapolated</i>	-Neurological
Fensulfothion	1 <i>RAGS-E</i>	2.500E-04 <i>OPP</i>	2.500E-04 <i>extrapolated</i>	2.500E-04 <i>extrapolated</i>	-Neurological
Fluometuron	1 <i>RAGS-E</i>	1.300E-02 <i>IRIS Low</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-None Specified

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Fluoranthene	0.5 ATSDR	4.000E-02 <i>IRIS Low</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Blood -Kidney -Liver
Fluorene	0.5 ATSDR	4.000E-02 <i>IRIS Low</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Blood
Fluoride	0.97 ATSDR	6.000E-02 <i>IRIS High</i>	5.820E-02 <i>extrapolated</i>	5.820E-02 <i>extrapolated</i>	-Teeth
Fonofos	0.815 HSDB	2.000E-03 <i>IRIS Medium</i>	1.630E-03 <i>extrapolated</i>	1.630E-03 <i>extrapolated</i>	-Liver -Neurological
Formaldehyde	1 RAGS-E	2.000E-01 <i>IRIS Medium</i>	2.000E-01 <i>extrapolated</i>	2.000E-01 <i>extrapolated</i>	-Body Weight -Carcinogen -Gastrointestinal
Furfural	1 RAGS-E	3.000E-03 <i>IRIS Low</i>	1.429E-02 <i>extrapolated*</i>	3.000E-03 <i>extrapolated</i>	-Liver -Nasal
Guthion [or Azinphos, methyl]	1 HSDB	1.500E-03 <i>OPP</i>	1.500E-03 <i>extrapolated</i>	1.500E-03 <i>extrapolated</i>	-Neurological
Heptachlor	0.8 ATSDR	5.000E-04 <i>IRIS Low</i>	4.000E-04 <i>extrapolated</i>	4.000E-04 <i>extrapolated</i>	-Carcinogen -Liver
Heptachlor epoxide	0.4 ATSDR	1.300E-05 <i>IRIS Low</i>	5.200E-06 <i>extrapolated</i>	5.200E-06 <i>extrapolated</i>	-Carcinogen -Liver
Hexachloro-1,3-butadiene	1 ATSDR	2.000E-04 <i>HEAST</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Carcinogen -Kidney
Hexachlorobenzene	0.8 ATSDR	8.000E-04 <i>IRIS Medium</i>	6.400E-04 <i>extrapolated</i>	6.400E-04 <i>extrapolated</i>	-Carcinogen -Liver
Hexachlorocyclohexane, delta-	0.919 ATSDR	3.000E-04 <i>Surrogate(d)</i>	2.757E-04 <i>extrapolated</i>	2.757E-04 <i>extrapolated</i>	-Kidney -Liver
Hexachlorocyclohexane, gamma- [or Lindane]	0.994 ATSDR	3.000E-04 <i>IRIS Medium</i>	2.982E-04 <i>extrapolated</i>	2.982E-04 <i>extrapolated</i>	-Carcinogen -Kidney -Liver
Hexachlorocyclopentadiene	0.9 HSDB	7.000E-03 <i>IRIS Low</i>	2.000E-05 <i>extrapolated*</i>	6.300E-03 <i>extrapolated</i>	-Gastrointestinal

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Hexachloroethane	1 <i>RAGS-E</i>	1.000E-03 <i>IRIS Medium</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Carcinogen -Kidney
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	1 <i>RAGS-E</i>	3.000E-03 <i>IRIS High</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-Carcinogen -Reproductive
Hexane, n-	1 <i>RAGS-E</i>	6.000E-02 <i>HEAST</i>	5.714E-02 <i>extrapolated*</i> <i>Medium</i>	6.000E-02 <i>extrapolated</i>	-Neurological
Hexanone, 2- [or Methyl butyl ketone]	0.98 <i>ATSDR</i>	4.000E-02 <i>NCEA</i>	1.400E-03 <i>NCEA</i>	3.920E-02 <i>extrapolated</i>	-None Specified
Hexazinone	1 <i>RAGS-E</i>	3.300E-02 <i>IRIS Medium</i>	3.300E-02 <i>extrapolated</i>	3.300E-02 <i>extrapolated</i>	-Body Weight
Hydroquinone	1 <i>RAGS-E</i>	4.000E-02 <i>HEAST</i>	4.000E-02 <i>extrapolated</i>	4.000E-02 <i>extrapolated</i>	-Blood
Iron	0.085 <i>Casarett 4th</i>	3.000E-01 <i>NCEA</i>	2.550E-02 <i>extrapolated</i>	2.550E-02 <i>extrapolated</i>	-Blood -Gastrointestinal
Isobutyl alcohol	1 <i>RAGS-E</i>	3.000E-01 <i>IRIS</i>	3.000E-01 <i>extrapolated</i>	3.000E-01 <i>extrapolated</i>	-Neurological
Isophorone	1 <i>RAGS-E</i>	2.000E-01 <i>IRIS Low</i>	2.000E-01 <i>extrapolated</i>	2.000E-01 <i>extrapolated</i>	-Carcinogen
Linuron	1 <i>RAGS-E</i>	2.000E-03 <i>IRIS High</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Blood
Lithium	1 <i>RAGS-E</i>	2.000E-02 <i>NCEA</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-None Specified
Malathion	0.47 <i>HSDDB</i>	2.000E-02 <i>IRIS Medium</i>	9.400E-03 <i>extrapolated</i>	9.400E-03 <i>extrapolated</i>	-Neurological
Maneb	1 <i>RAGS-E</i>	5.000E-03 <i>IRIS Low</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Thyroid
Manganese	0.04 <i>RAGS-E</i>	2.300E-02 <i>IRIS (modified) Medium</i>	1.429E-05 <i>extrapolated*</i> <i>Medium</i>	9.200E-04 <i>extrapolated</i>	-Neurological

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Mercury	0.1 ATSDR	3.000E-04 <i>HEAST</i>	8.571E-05 <i>extrapolated*</i> <i>Medium</i>	3.000E-05 <i>extrapolated</i>	-Neurological
Mercury, methyl	0.95 ATSDR	1.000E-04 <i>IRIS</i> <i>Medium</i>	9.500E-05 <i>extrapolated</i>	9.500E-05 <i>extrapolated</i>	-Neurological
Merphos	1 RAGS-E	3.000E-05 <i>IRIS</i> <i>Low</i>	3.000E-05 <i>extrapolated</i>	3.000E-05 <i>extrapolated</i>	-Body Weight -Neurological
Methamidophos	1 RAGS-E	5.000E-05 <i>IRIS</i> <i>Medium</i>	5.000E-05 <i>extrapolated</i>	5.000E-05 <i>extrapolated</i>	-Neurological
Methanol	1 RAGS-E	5.000E-01 <i>IRIS</i>	5.000E-01 <i>extrapolated</i>	5.000E-01 <i>extrapolated</i>	-Liver -Neurological
Methidathion	1 RAGS-E	1.000E-03 <i>IRIS</i> <i>Medium</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Liver
Methomyl	1 RAGS-E	2.500E-02 <i>IRIS</i> <i>Medium</i>	2.500E-02 <i>extrapolated</i>	2.500E-02 <i>extrapolated</i>	-Kidney -Spleen
Methoxychlor	0.9 ATSDR	5.000E-03 <i>IRIS</i> <i>Low</i>	4.500E-03 <i>extrapolated</i>	4.500E-03 <i>extrapolated</i>	-Developmental -Reproductive
Methyl acetate	1 RAGS-E	1.000E+00 <i>HEAST</i>	1.000E+00 <i>extrapolated</i>	1.000E+00 <i>extrapolated</i>	-Liver
Methyl acrylate	1 RAGS-E	3.000E-02 <i>HEAST</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-None Specified
Methyl isobutyl ketone [or MIBK]	1 RAGS-E	8.000E-02 <i>HEAST</i>	2.286E-02 <i>extrapolated*</i>	8.000E-02 <i>extrapolated</i>	-Kidney -Liver
Methyl methacrylate	1 RAGS-E	1.400E+00 <i>IRIS</i>	2.000E-01 <i>extrapolated*</i>	1.400E+00 <i>extrapolated</i>	-Nasal
Methyl parathion [or Parathion, methyl]	0.8 ATSDR	2.500E-04 <i>IRIS</i> <i>Medium</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Blood -Neurological
Methyl tert-butyl ether [or MTBE]	1 RAGS-E	8.571E-01 <i>extrapolated</i>	8.571E-01 <i>extrapolated*</i> <i>Medium</i>	8.571E-01 <i>extrapolated</i>	-Eye -Kidney -Liver

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Methyl-4-chlorophenoxy acetic acid, 2-	0.932 <i>HSDB</i>	5.000E-04 <i>IRIS Medium</i>	4.660E-04 <i>extrapolated</i>	4.660E-04 <i>extrapolated</i>	-Kidney -Liver
Methylene bis(2-chloroaniline), 4,4-	1 <i>RAGS-E</i>	7.000E-04 <i>HEAST</i>	7.000E-04 <i>extrapolated</i>	7.000E-04 <i>extrapolated</i>	-Carcinogen -Liver -Bladder
Methylene bromide	1 <i>RAGS-E</i>	1.000E-02 <i>HEAST</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Blood
Methylene chloride	1 <i>ATSDR</i>	6.000E-02 <i>IRIS Medium</i>	8.571E-01 <i>extrapolated*</i>	6.000E-02 <i>extrapolated</i>	-Carcinogen -Liver
Methylnaphthalene, 1-	1 <i>RAGS-E</i>	2.000E-02 <i>Surrogate(e)</i>	8.571E-04 <i>extrapolated*</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Nasal
Methylnaphthalene, 2-	1 <i>RAGS-E</i>	2.000E-02 <i>Surrogate (e)</i>	8.571E-04 <i>extrapolated*</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Nasal
Methylphenol, 2- [or o-Cresol]	0.745 <i>ATSDR</i>	5.000E-02 <i>IRIS Medium</i>	3.725E-02 <i>extrapolated</i>	3.725E-02 <i>extrapolated</i>	-Body Weight -Neurological
Methylphenol, 3- [or m-Cresol]	0.745 <i>ATSDR</i>	5.000E-02 <i>IRIS Medium</i>	3.725E-02 <i>extrapolated</i>	3.725E-02 <i>extrapolated</i>	-Body Weight -Neurological
Methylphenol, 4- [or p-Cresol]	0.745 <i>ATSDR</i>	5.000E-03 <i>HEAST</i>	3.725E-03 <i>extrapolated</i>	3.725E-03 <i>extrapolated</i>	-Maternal Death -Neurological -Respiratory
Metolachlor	1 <i>RAGS-E</i>	1.500E-01 <i>IRIS High</i>	1.500E-01 <i>extrapolated</i>	1.500E-01 <i>extrapolated</i>	-Body Weight
Metribuzin	1 <i>RAGS-E</i>	2.500E-02 <i>IRIS Medium</i>	2.500E-02 <i>extrapolated</i>	2.500E-02 <i>extrapolated</i>	-Body Weight -Kidney -Liver -Mortality
Mevinphos	1 <i>HSDB</i>	2.500E-04 <i>OPP</i>	2.500E-04 <i>extrapolated</i>	2.500E-04 <i>extrapolated</i>	-Neurological
Molinate	0.865 <i>HSDB</i>	2.000E-03 <i>IRIS Low</i>	1.730E-03 <i>extrapolated</i>	1.730E-03 <i>extrapolated</i>	-Reproductive
Molybdenum	0.45 <i>HSDB</i>	5.000E-03 <i>IRIS Medium</i>	2.250E-03 <i>extrapolated</i>	2.250E-03 <i>extrapolated</i>	-Gout

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Naled	1 HSDB	2.000E-03 <i>IRIS Medium</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Neurological
Naphthalene	1 ATSDR	2.000E-02 <i>IRIS Low</i>	8.571E-04 <i>extrapolated*</i> <i>Medium</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Nasal
Nickel	0.05 ATSDR	2.000E-02 <i>IRIS Medium</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Body Weight
Nitrate	1 RAGS-E	1.600E+00 <i>IRIS High</i>	1.600E+00 <i>extrapolated</i>	1.600E+00 <i>extrapolated</i>	-Blood
Nitrite	1 RAGS-E	1.000E-01 <i>IRIS High</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Blood
Nitrobenzene	1 RAGS-E	5.000E-04 <i>IRIS Low</i>	5.714E-04 <i>extrapolated*</i>	5.000E-04 <i>extrapolated</i>	-Adrenals -Blood -Kidney -Liver
Nitroglycerin	0.1 ProfJudge	7.000E-04 <i>CEHT</i>	3.000E-04 <i>CEHT</i>	7.000E-05 <i>extrapolated</i>	-Carcinogen -Cardiovascular
Nitrophenol, 4-	1 RAGS-E	8.000E-03 <i>NCEA</i>	8.000E-03 <i>extrapolated</i>	8.000E-03 <i>extrapolated</i>	-None Specified
Nitrotoluene, m-	1 RAGS-E	1.000E-02 <i>HEAST</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Spleen
Nitrotoluene, o-	1 RAGS-E	1.000E-02 <i>HEAST</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Spleen
Nitrotoluene, p-	1 RAGS-E	1.000E-02 <i>HEAST</i>	1.000E-02 <i>extrapolated</i>	1.000E-02 <i>extrapolated</i>	-Spleen
Octamethylpyrophosphoramide	1 RAGS-E	2.000E-03 <i>HEAST</i>	2.000E-03 <i>extrapolated</i>	2.000E-03 <i>extrapolated</i>	-Neurological
Oxamyl	1 RAGS-E	2.500E-02 <i>IRIS Medium</i>	2.500E-02 <i>extrapolated</i>	2.500E-02 <i>extrapolated</i>	-Body Weight
Paraquat	0.2 HSDB	4.500E-03 <i>IRIS High</i>	9.000E-04 <i>extrapolated</i>	9.000E-04 <i>extrapolated</i>	-Respiratory

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Parathion	1 HSDB	6.000E-03 <i>HEAST</i>	6.000E-03 <i>extrapolated</i>	6.000E-03 <i>extrapolated</i>	-Neurological
PCBs [Aroclor mixture]	1 RAGS-E	2.000E-05 <i>IRIS Medium</i>	2.000E-05 <i>extrapolated</i>	2.000E-05 <i>extrapolated</i>	-Carcinogen -Immunological
Pebulate	0.95 HSDB	5.000E-02 <i>HEAST</i>	4.750E-02 <i>extrapolated</i>	4.750E-02 <i>extrapolated</i>	-Blood
Pendimethalin	1 RAGS-E	4.000E-02 <i>IRIS Medium</i>	4.000E-02 <i>extrapolated</i>	4.000E-02 <i>extrapolated</i>	-Liver
Pentachlorobenzene	1 RAGS-E	8.000E-04 <i>IRIS Low</i>	8.000E-04 <i>extrapolated</i>	8.000E-04 <i>extrapolated</i>	-Kidney -Liver
Pentachloronitrobenzene	1 RAGS-E	3.000E-03 <i>IRIS Medium</i>	3.000E-03 <i>extrapolated</i>	3.000E-03 <i>extrapolated</i>	-Carcinogen -Liver
Pentachlorophenol	0.5 ATSDR	3.000E-02 <i>IRIS Medium</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Carcinogen -Kidney -Liver
Permethrin	1 RAGS-E	5.000E-02 <i>IRIS High</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Liver
Phenanthrene	0.5 ATSDR	3.000E-02 <i>Surrogate (a)</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Kidney
Phenol	1 ATSDR	6.000E-01 <i>IRIS Low</i>	6.000E-01 <i>extrapolated</i>	6.000E-01 <i>extrapolated</i>	-Developmental
Phenylenediamine, p-	1 RAGS-E	1.900E-01 <i>HEAST</i>	1.900E-01 <i>extrapolated</i>	1.900E-01 <i>extrapolated</i>	-Whole Body
Phorate	1 HSDB	2.000E-04 <i>HEAST</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Neurological
Phosmet	1 RAGS-E	2.000E-02 <i>IRIS High</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Body Weight -Liver -Neurological
Phthalic anhydride	1 RAGS-E	2.000E+00 <i>IRIS Medium</i>	3.429E-02 <i>extrapolated*</i>	2.000E+00 <i>extrapolated</i>	-Kidney -Nasal -Respiratory

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Prometon	1 <i>RAGS-E</i>	1.500E-02 <i>IRIS Low</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-None Specified
Prometryn	1 <i>RAGS-E</i>	4.000E-03 <i>IRIS Low</i>	4.000E-03 <i>extrapolated</i>	4.000E-03 <i>extrapolated</i>	-Bone Marrow -Kidney -Liver
Propachlor	1 <i>RAGS-E</i>	1.300E-02 <i>IRIS Low</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-Body Weight -Liver
Propanil	1 <i>RAGS-E</i>	5.000E-03 <i>IRIS Medium</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Spleen
Propazine	1 <i>RAGS-E</i>	2.000E-02 <i>IRIS Medium</i>	2.000E-02 <i>extrapolated</i>	2.000E-02 <i>extrapolated</i>	-Body Weight
Propylene glycol	1 <i>RAGS-E</i>	2.000E+01 <i>HEAST</i>	2.000E+01 <i>extrapolated</i>	2.000E+01 <i>extrapolated</i>	-Blood -Bone Marrow
Propylene oxide	1 <i>RAGS-E</i>	NA	8.571E-03 <i>extrapolated*</i> <i>Medium</i>	NA	-Carcinogen -Nasal -Respiratory
Pydrin [or Fenvalerate]	1 <i>RAGS-E</i>	2.500E-02 <i>IRIS High</i>	2.500E-02 <i>extrapolated</i>	2.500E-02 <i>extrapolated</i>	-Neurological
Pyrene	0.5 <i>ATSDR</i>	3.000E-02 <i>IRIS Low</i>	1.500E-02 <i>extrapolated</i>	1.500E-02 <i>extrapolated</i>	-Kidney
Pyridine	0.67 <i>ATSDR</i>	1.000E-03 <i>IRIS Medium</i>	6.700E-04 <i>extrapolated</i>	6.700E-04 <i>extrapolated</i>	-Liver
Resmethrin	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS High</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Reproductive
Ronnel	1 <i>RAGS-E</i>	5.000E-02 <i>HEAST</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Liver
Selenium	0.97 <i>ATSDR</i>	5.000E-03 <i>IRIS High</i>	4.850E-03 <i>extrapolated</i>	4.850E-03 <i>extrapolated</i>	-Hair Loss -Neurological -Skin
Silver	0.04 <i>RAGS-E</i>	5.000E-03 <i>IRIS Low</i>	2.000E-04 <i>extrapolated</i>	2.000E-04 <i>extrapolated</i>	-Skin

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Simazine	1 <i>RAGS-E</i>	5.000E-03 <i>IRIS High</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Blood -Body Weight -Carcinogen
Strontium	1 <i>RAGS-E</i>	6.000E-01 <i>IRIS Medium</i>	6.000E-01 <i>extrapolated</i>	6.000E-01 <i>extrapolated</i>	-Bone
Strychnine	1 <i>RAGS-E</i>	3.000E-04 <i>IRIS Low</i>	3.000E-04 <i>extrapolated</i>	3.000E-04 <i>extrapolated</i>	-Mortality
Styrene	1 <i>ATSDR</i>	2.000E-01 <i>IRIS Medium</i>	2.857E-01 <i>extrapolated*</i> <i>Medium</i>	2.000E-01 <i>extrapolated</i>	-Blood -Liver -Neurological
Terbacil	1 <i>RAGS-E</i>	1.300E-02 <i>IRIS Medium</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-Liver -Thyroid
Terbufos	1 <i>RAGS-E</i>	2.500E-05 <i>HEAST</i>	2.500E-05 <i>extrapolated</i>	2.500E-05 <i>extrapolated</i>	-Neurological
Tetrachlorobenzene, 1,2,4,5-	1 <i>RAGS-E</i>	3.000E-04 <i>IRIS Low</i>	3.000E-04 <i>extrapolated</i>	3.000E-04 <i>extrapolated</i>	-Kidney
Tetrachloroethane, 1,1,1,2-	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS Low</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Carcinogen -Kidney -Liver
Tetrachloroethylene [or PCE]	1 <i>ATSDR</i>	1.000E-02 <i>IRIS Medium</i>	1.400E-01 <i>NCEA</i>	1.000E-02 <i>extrapolated</i>	-Body Weight -Carcinogen -Liver
Tetrachlorophenol, 2,3,4,6-	1 <i>RAGS-E</i>	3.000E-02 <i>IRIS Medium</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Liver
Tetraethyl dithiopyrophosphate	1 <i>RAGS-E</i>	5.000E-04 <i>IRIS Low</i>	5.000E-04 <i>extrapolated</i>	5.000E-04 <i>extrapolated</i>	-Bone Marrow -Neurological
Thiram	1 <i>RAGS-E</i>	5.000E-03 <i>IRIS Low</i>	5.000E-03 <i>extrapolated</i>	5.000E-03 <i>extrapolated</i>	-Neurological
Tin	0.028 <i>ATSDR</i>	6.000E-01 <i>HEAST</i>	1.680E-02 <i>extrapolated</i>	1.680E-02 <i>extrapolated</i>	-Kidney -Liver
Toluene	1 <i>RAGS-E</i>	2.000E-01 <i>IRIS Medium</i>	1.143E-01 <i>extrapolated*</i> <i>Medium</i>	2.000E-01 <i>extrapolated</i>	-Kidney -Liver -Neurological

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Toxaphene	0.63 HSDB	2.500E-04 <i>OPP</i>	1.575E-04 <i>extrapolated</i>	1.575E-04 <i>extrapolated</i>	-Carcinogen -Developmental
Triallate	1 <i>RAGS-E</i>	1.300E-02 <i>IRIS High</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-Liver -Spleen
Tributyltin oxide	1 <i>RAGS-E</i>	3.000E-04 <i>IRIS High</i>	3.000E-04 <i>extrapolated</i>	3.000E-04 <i>extrapolated</i>	-Immunological
Trichloro-1,2,2-trifluoroethane, 1,1,2-[or CFC 113]	1 <i>RAGS-E</i>	3.000E+01 <i>IRIS Low</i>	8.571E+00 <i>extrapolated*</i>	3.000E+01 <i>extrapolated</i>	-Body Weight -Neurological
Trichloroacetic acid	1 <i>RAGS-E</i>	1.300E-02 <i>HAL</i>	1.300E-02 <i>extrapolated</i>	1.300E-02 <i>extrapolated</i>	-None Specified
Trichlorobenzene, 1,2,3-	1 <i>RAGS-E</i>	1.000E-02 <i>Surrogate (f)</i>	5.714E-02 <i>extrapolated*</i>	1.000E-02 <i>extrapolated</i>	-Adrenals -Body Weight
Trichlorobenzene, 1,2,4-	0.9 HSDB	1.000E-02 <i>IRIS Medium</i>	5.714E-02 <i>extrapolated*</i>	9.000E-03 <i>extrapolated</i>	-Adrenals -Body Weight
Trichlorobenzene, 1,3,5-	1 <i>RAGS-E</i>	5.700E-03 <i>HAL</i>	5.700E-03 <i>extrapolated</i>	5.700E-03 <i>extrapolated</i>	-None Specified
Trichloroethane, 1,1,1- [or Methyl chloroform]	1 HSDB	2.800E-01 <i>NCEA</i>	2.860E-01 <i>NCEA</i>	2.800E-01 <i>extrapolated</i>	-None Specified
Trichloroethane, 1,1,2-	0.81 ATSDR	4.000E-03 <i>IRIS Medium</i>	3.240E-03 <i>extrapolated</i>	3.240E-03 <i>extrapolated</i>	-Carcinogen -Liver
Trichloroethene [or TCE]	0.945 ATSDR	6.000E-03 <i>NCEA</i>	5.670E-03 <i>extrapolated</i>	5.670E-03 <i>extrapolated</i>	-Carcinogen
Trichlorofluoromethane	1 <i>RAGS-E</i>	3.000E-01 <i>IRIS Medium</i>	2.000E-01 <i>extrapolated*</i>	3.000E-01 <i>extrapolated</i>	-Cardiovascular -Kidney -Mortality -Respiratory
Trichlorophenol, 2,4,5-	1 <i>RAGS-E</i>	1.000E-01 <i>IRIS Low</i>	1.000E-01 <i>extrapolated</i>	1.000E-01 <i>extrapolated</i>	-Kidney -Liver
Trichlorophenoxy acetic acid, 2,4,5-	0.95 HSDB	1.000E-02 <i>IRIS Medium</i>	9.500E-03 <i>extrapolated</i>	9.500E-03 <i>extrapolated</i>	-Kidney

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Trichlorophenoxy propionic acid [or Silvex]	1 HSDB	8.000E-03 <i>IRIS Medium</i>	8.000E-03 <i>extrapolated</i>	8.000E-03 <i>extrapolated</i>	-Liver
Trichloropropane, 1,2,3-	1 RAGS-E	6.000E-03 <i>IRIS Low</i>	6.000E-03 <i>extrapolated</i>	6.000E-03 <i>extrapolated</i>	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Trifluralin	0.2 HSDB	7.500E-03 <i>IRIS High</i>	1.500E-03 <i>extrapolated</i>	1.500E-03 <i>extrapolated</i>	-Blood -Carcinogen -Liver
Trimethylbenzene, 1,2,3-	1 RAGS-E	5.000E-02 <i>Surrogate (g)</i>	1.700E-03 <i>Surrogate (g)</i>	5.000E-02 <i>extrapolated</i>	-None Specified
Trimethylbenzene, 1,2,4-	1 RAGS-E	5.000E-02 <i>NCEA</i>	1.700E-03 <i>NCEA</i>	5.000E-02 <i>extrapolated</i>	-None Specified
Trimethylbenzene, 1,3,5-	1 RAGS-E	5.000E-02 <i>NCEA</i>	1.700E-03 <i>NCEA</i>	5.000E-02 <i>extrapolated</i>	-None Specified
Trinitrobenzene, 1,3,5-	1 RAGS-E	3.000E-02 <i>IRIS Medium</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>	-Blood -Spleen
Trinitrotoluene, 2,4,6-	1 RAGS-E	5.000E-04 <i>IRIS Medium</i>	5.000E-04 <i>extrapolated</i>	5.000E-04 <i>extrapolated</i>	-Carcinogen -Liver
TRPH	0.8 ATSDR	4.000E-02 <i>TPHCWG</i>	5.714E-02 <i>extrapolated*</i>	3.200E-02 <i>extrapolated</i>	-Multiple Endpoints Mixed Contaminants
Uranium, natural	0.002 ATSDR	3.000E-03 <i>IRIS</i>	6.000E-06 <i>extrapolated</i>	6.000E-06 <i>extrapolated</i>	-None Specified
Vanadium	0.026 RAGS-E	7.000E-03 <i>HEAST</i>	1.820E-04 <i>extrapolated</i>	1.820E-04 <i>extrapolated</i>	-None Specified
Vernam	1 RAGS-E	1.000E-03 <i>IRIS Low</i>	1.000E-03 <i>extrapolated</i>	1.000E-03 <i>extrapolated</i>	-Body Weight
Vinyl acetate	1 RAGS-E	1.000E+00 <i>HEAST</i>	5.714E-02 <i>extrapolated*</i> <i>High</i>	1.000E+00 <i>extrapolated</i>	-Body Weight -Kidney -Nasal
Xylenes, total	0.895 ATSDR	2.000E+00 <i>IRIS Medium</i>	1.790E+00 <i>extrapolated</i>	1.790E+00 <i>extrapolated</i>	-Body Weight -Mortality -Neurological

Table 5b
Sources and Derivation of Toxicity Values Used in Calculations for Noncarcinogens

Contaminant	GI Absorption	RfDo (mg/kg/day)	RfDi (mg/kg/day)	RfDd (mg/kg/day)	Target Organ/System or Effect
Zinc	0.25 <i>ATSDR</i>	3.000E-01 <i>IRIS Medium</i>	7.500E-02 <i>extrapolated</i>	7.500E-02 <i>extrapolated</i>	-Blood
Zinc phosphide	1 <i>RAGS-E</i>	3.000E-04 <i>IRIS Low</i>	3.000E-04 <i>extrapolated</i>	3.000E-04 <i>extrapolated</i>	-Body Weight
Zineb	1 <i>RAGS-E</i>	5.000E-02 <i>IRIS Medium</i>	5.000E-02 <i>extrapolated</i>	5.000E-02 <i>extrapolated</i>	-Thyroid

Note: Although reference doses are reported for all contaminants for which they are available, some contaminants have both carcinogenic and non-carcinogenic health effects. In those cases CTLS are generated for both endpoints and the lower of the two CTLS are provided.

extrapolated = Extrapolated from a reference dose for another route of administration

extrapolated* = Extrapolated from an inhalation reference concentration

"Low", "Medium", and "High" are taken from IRIS and are qualitative descriptors of the USEPA's confidence in the reference doses contained in IRIS.

Reference sources for toxicity data:

IRIS: U.S. EPA's Integrated Risk Information System

HEAST: U.S. EPA's Health Effects Assessment Summary Tables

NCEA: National Center for Environmental Assessment

OPP: U.S. EPA's Office of Pesticide "Programs Reference Dose Tracking Report"

HAL: Drinking Regulations and Health Advisories (U.S. EPA Office of Water)

IRIS (modified): Oral RfD for manganese modified in accordance with guidance from IRIS regarding background exposure

HEAST-WD: Value withdrawn from Health Effects Assessment Summary Tables

Surrogate (a): Surrogate RfD based on other non-carcinogenic PAHs (e.g., pyrene)

Surrogate (c): Surrogate RfD based oral RfD for 2,4-dichlorophenol

Surrogate (b): Surrogate RfD based on oral RfD for 2-chlorophenol

Surrogate (d): Surrogate RfD based on oral RfD for HCH-gamme (lindane)

Surrogate (e): Surrogate RfD based on other non-carcinogenic PAHs (e.g., naphthalene)

Surrogate (f): Surrogate RfD based on oral RfD for 1,2,4-trichlorobenzene

Surrogate (g): Surrogate RfD based on oral RfD for 1,2,4-trimethylbenzene

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Adrenals	
Cumene [or Isopropyl benzene]	-Adrenals -Kidney
Dicofol [or Kelthane]	-Adrenals -Carcinogen
Nitrobenzene	-Adrenals -Blood -Kidney -Liver
Trichlorobenzene, 1,2,3-	-Adrenals -Body Weight
Trichlorobenzene, 1,2,4-	-Adrenals -Body Weight
Blood	
Acetonitrile	-Blood -Liver
Alachlor	-Blood -Carcinogen
Aniline	-Blood -Carcinogen
Antimony	-Blood -Mortality
Bayleton	-Blood -Body Weight
Bentazon	-Blood
Bis(2-chloroisopropyl)ether	-Blood -Carcinogen
Dichloroethene, cis-1,2-	-Blood
Dichloroethene, trans-1,2-	-Blood -Liver
Dimethylphenol, 2,4-	-Blood -Neurological
Dinitrotoluene, 2,6-	-Blood -Carcinogen -Kidney -Mortality -Neurological
Diuron	-Blood
Ethylene diamine	-Blood -Cardiovascular
Fluoranthene	-Blood -Kidney -Liver
Fluorene	-Blood
Hydroquinone	-Blood
Iron	-Blood -Gastrointestinal
Linuron	-Blood
Methyl parathion [or Parathion, methyl]	-Blood -Neurological
Methylene bromide	-Blood
Nitrate	-Blood
Nitrite	-Blood
Nitrobenzene	-Adrenals -Blood -Kidney -Liver
Pebulate	-Blood
Propylene glycol	-Blood -Bone Marrow
Simazine	-Blood -Body Weight -Carcinogen
Styrene	-Blood -Liver -Neurological
Trifluralin	-Blood -Carcinogen -Liver
Trinitrobenzene, 1,3,5-	-Blood -Spleen

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Zinc	-Blood
Body Weight	
Acenaphthylene	-Body Weight -Liver
Aluminum	-Body Weight
Aluminum phosphide	-Body Weight
Atrazine	-Body Weight -Carcinogen
Bayleton	-Blood -Body Weight
Bisphenol A	-Body Weight
Bromacil	-Body Weight
Calcium cyanide	-Body Weight -Neurological -Thyroid
Captan	-Body Weight -Carcinogen
Chlorine	-Body Weight
Chlorine cyanide [or Cyanogen chloride]	-Body Weight -Neurological -Thyroid
Chloro-1,3-butadiene [or Chloroprene]	-Body Weight -Hair Loss -Nasal
Chlorobenzilate	-Body Weight -Carcinogen
Chloro-m-cresol, p- [or 4-chloro-3-methylphen	-Body Weight
Chlorotoluene, o-	-Body Weight
Cyanide	-Body Weight -Neurological -Thyroid
Cyclohexanone	-Body Weight
Dichlorobenzene, 1,2-	-Body Weight
Dichlorodifluoromethane	-Body Weight -Liver
Diethylphthalate	-Body Weight
Endosulfan	-Body Weight -Cardiovascular -Kidney
Ethoxyethanol, 2-	-Body Weight -Reproductive
Ethyl acetate	-Body Weight -Mortality
Ethyl ether	-Body Weight
Formaldehyde	-Body Weight -Carcinogen -Gastrointestinal
Hexazinone	-Body Weight
Merphos	-Body Weight -Neurological
Methylnaphthalene, 1-	-Body Weight -Nasal
Methylnaphthalene, 2-	-Body Weight -Nasal
Methylphenol, 2- [or o-Cresol]	-Body Weight -Neurological
Methylphenol, 3- [or m-Cresol]	-Body Weight -Neurological
Metolachlor	-Body Weight
Metribuzin	-Body Weight -Kidney -Liver -Mortality
Naphthalene	-Body Weight -Nasal
Nickel	-Body Weight

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Oxamyl	-Body Weight
Phosmet	-Body Weight -Liver -Neurological
Propachlor	-Body Weight -Liver
Propazine	-Body Weight
Simazine	-Blood -Body Weight -Carcinogen
Tetrachloroethene [or PCE]	-Body Weight -Carcinogen -Liver
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 1	-Body Weight -Neurological
Trichlorobenzene, 1,2,3-	-Adrenals -Body Weight
Trichlorobenzene, 1,2,4-	-Adrenals -Body Weight
Trichloropropane, 1,2,3-	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Vernam	-Body Weight
Vinyl acetate	-Body Weight -Kidney -Nasal
Xylenes, total	-Body Weight -Mortality -Neurological
Zinc phosphide	-Body Weight

Bone Marrow

Chlorpropham	-Bone Marrow -Kidney -Liver -Spleen
Prometryn	-Bone Marrow -Kidney -Liver
Propylene glycol	-Blood -Bone Marrow
Tetraethyl dithiopyrophosphate	-Bone Marrow -Neurological

Carcinogen

Acephate	-Carcinogen -Neurological
Acrylamide	-Carcinogen -Neurological
Acrylonitrile	-Carcinogen -Nasal -Reproductive
Alachlor	-Blood -Carcinogen
Aldrin	-Carcinogen -Liver
Aniline	-Blood -Carcinogen
Arsenic	-Carcinogen -Cardiovascular -Skin
Atrazine	-Body Weight -Carcinogen
Azobenzene	-Carcinogen
Benzene	-Carcinogen
Benzo(a)anthracene	-Carcinogen
Benzo(a)pyrene	-Carcinogen
Benzo(b)fluoranthene	-Carcinogen
Benzo(k)fluoranthene	-Carcinogen
Benzotrichloride	-Carcinogen
Benzyl chloride	-Carcinogen

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Beryllium	-Carcinogen -Gastrointestinal -Respiratory
Bis(2-chloroethyl)ether	-Carcinogen
Bis(2-chloroisopropyl)ether	-Blood -Carcinogen
Bis(2-ethylhexyl)phthalate [or DEHP]	-Carcinogen -Liver
Bromodichloromethane	-Carcinogen -Kidney
Bromoform	-Carcinogen -Liver
Cadmium	-Carcinogen -Kidney
Captan	-Body Weight -Carcinogen
Carbazole	-Carcinogen
Carbon tetrachloride	-Carcinogen -Liver
Chlordane	-Carcinogen -Liver
Chlorobenzilate	-Body Weight -Carcinogen
Chloroethane [or Ethyl chloride]	-Carcinogen -Developmental
Chloroform	-Carcinogen -Liver
Chloromethane	-Carcinogen
Chloronitrobenzene, p-	-Carcinogen
Chlorothalonil [or Bravo]	-Carcinogen -Kidney
Chromium (hexavalent)	-Carcinogen -Respiratory
Chromium (total)	-Carcinogen
Chrysene	-Carcinogen
Crotonaldehyde	-Carcinogen
DDD, 4,4'-	-Carcinogen
DDE, 4,4'-	-Carcinogen
DDT, 4,4'-	-Carcinogen -Liver
Diallate	-Carcinogen
Dibenz(a,h)anthracene	-Carcinogen
Dibromo-3-chloropropane, 1-2- [or DBCP]	-Carcinogen -Reproductive
Dibromochloromethane	-Carcinogen -Liver
Dibromoethane, 1,2- [or EDB]	-Carcinogen -Reproductive
Dichlorobenzene, 1,4-	-Carcinogen -Liver
Dichlorobenzidine, 3,3'-	-Carcinogen
Dichloroethane, 1,2- [or EDC]	-Carcinogen
Dichloroethene, 1,1-	-Carcinogen -Liver
Dichloropropane, 1,2-	-Carcinogen -Nasal
Dichloropropene, 1,3-	-Carcinogen -Kidney -Nasal
Dichlorvos	-Carcinogen -Neurological
Dicofol [or Kelthane]	-Adrenals -Carcinogen

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Dieldrin	-Carcinogen -Liver
Dinitrotoluene, 2,4-	-Carcinogen -Liver -Neurological
Dinitrotoluene, 2,6-	-Blood -Carcinogen -Kidney -Mortality -Neurological
Dioxane, 1,4-	-Carcinogen
Dioxin [or 2,3,7,8-TCDD]	-Carcinogen
Diphenylhydrazine, 1,2-	-Carcinogen
Epichlorohydrin	-Carcinogen -Kidney -Nasal
Ethyl acrylate	-Carcinogen
Ethylene oxide	-Carcinogen
Formaldehyde	-Body Weight -Carcinogen -Gastrointestinal
Heptachlor	-Carcinogen -Liver
Heptachlor epoxide	-Carcinogen -Liver
Hexachloro-1,3-butadiene	-Carcinogen -Kidney
Hexachlorobenzene	-Carcinogen -Liver
Hexachlorocyclohexane, alpha-	-Carcinogen
Hexachlorocyclohexane, beta-	-Carcinogen
Hexachlorocyclohexane, gamma- [or Lindane]	-Carcinogen -Kidney -Liver
Hexachloroethane	-Carcinogen -Kidney
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	-Carcinogen -Reproductive
Indeno(1,2,3-cd)pyrene	-Carcinogen
Isophorone	-Carcinogen
Methoxy-5-nitroaniline, 2-	-Carcinogen
Methylaniline, 2-	-Carcinogen
Methylene bis(2-chloroaniline), 4,4-	-Carcinogen -Liver -Bladder
Methylene chloride	-Carcinogen -Liver
Nitroglycerin	-Carcinogen -Cardiovascular
Nitroso-diethylamine, N-	-Carcinogen
Nitroso-dimethylamine, N-	-Carcinogen
Nitroso-di-n-butylamine, N-	-Carcinogen
Nitroso-di-n-propylamine, N-	-Carcinogen
Nitroso-diphenylamine, N-	-Carcinogen
Nitroso-N-methylethylamine, N-	-Carcinogen
PCBs [Aroclor mixture]	-Carcinogen -Immunological
Pentachloronitrobenzene	-Carcinogen -Liver
Pentachlorophenol	-Carcinogen -Kidney -Liver
Phenylphenol, 2-	-Carcinogen
Propylene oxide	-Carcinogen -Nasal -Respiratory

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Simazine	-Blood -Body Weight -Carcinogen
Tetrachloroethane, 1,1,1,2-	-Carcinogen -Kidney -Liver
Tetrachloroethane, 1,1,2,2-	-Carcinogen
Tetrachloroethylene [or PCE]	-Body Weight -Carcinogen -Liver
Toluidine, p-	-Carcinogen
Toxaphene	-Carcinogen -Developmental
Trichloroethane, 1,1,2-	-Carcinogen -Liver
Trichloroethene [or TCE]	-Carcinogen
Trichlorophenol, 2,4,6-	-Carcinogen
Trichloropropane, 1,2,3-	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Trifluralin	-Blood -Carcinogen -Liver
Trimethyl phosphate	-Carcinogen
Trinitrotoluene, 2,4,6-	-Carcinogen -Liver
Vinyl chloride	-Carcinogen

Cardiovascular

Arsenic	-Carcinogen -Cardiovascular -Skin
Barium	-Cardiovascular
Chloroacetic acid	-Cardiovascular
Cobalt	-Cardiovascular -Immunological -Neurological -Reproductive
Endosulfan	-Body Weight -Cardiovascular -Kidney
Ethyl dipropylthiocarbamate, S- [or EPTC]	-Cardiovascular
Ethylene diamine	-Blood -Cardiovascular
Nitroglycerin	-Carcinogen -Cardiovascular
Trichlorofluoromethane	-Cardiovascular -Kidney -Mortality -Respiratory

Developmental

Benomyl	-Developmental
Bidrin [or Dicrotophos]	-Developmental
Butanone, 2- [or MEK]	-Developmental
Carbon disulfide	-Developmental -Neurological
Chloroethane [or Ethyl chloride]	-Carcinogen -Developmental
Dicamba	-Developmental
Dinoseb	-Developmental
Ethylbenzene	-Developmental -Kidney -Liver
Methoxychlor	-Developmental -Reproductive
Phenol	-Developmental
Toxaphene	-Carcinogen -Developmental

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Eye	
Dinitrophenol, 2,4-	-Eye
Methyl tert-butyl ether [or MTBE]	-Eye -Kidney -Liver
Gastrointestinal	
Benzaldehyde	-Gastrointestinal -Kidney
Benzyl alcohol	-Gastrointestinal
Beryllium	-Carcinogen -Gastrointestinal -Respiratory
Bromomethane [or Methyl bromide]	-Gastrointestinal
Copper	-Gastrointestinal
Cypermethrin	-Gastrointestinal
Dimethylformamide, N,N-	-Gastrointestinal -Liver
Endothall	-Gastrointestinal
Formaldehyde	-Body Weight -Carcinogen -Gastrointestinal
Hexachlorocyclopentadiene	-Gastrointestinal
Iron	-Blood -Gastrointestinal
Hair Loss	
Chloro-1,3-butadiene [or Chloroprene]	-Body Weight -Hair Loss -Nasal
Selenium	-Hair Loss -Neurological -Skin
Immunological	
Cobalt	-Cardiovascular -Immunological -Neurological -Reproductive
Dichlorophenol, 2,4-	-Immunological
PCBs [Aroclor mixture]	-Carcinogen -Immunological
Tributyltin oxide	-Immunological
Kidney	
Acetone	-Kidney -Liver -Neurological
Allyl alcohol	-Kidney -Liver
Benzaldehyde	-Gastrointestinal -Kidney
Biphenyl, 1,1- [or Diphenyl]	-Kidney
Bromodichloromethane	-Carcinogen -Kidney
Cadmium	-Carcinogen -Kidney
Carbaryl [or Sevin]	-Kidney -Liver
Chlorothalonil [or Bravo]	-Carcinogen -Kidney
Chlorpropham	-Bone Marrow -Kidney -Liver -Spleen
Cumene [or Isopropyl benzene]	-Adrenals -Kidney
Dichloroethane, 1,1-	-Kidney

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Dichlorophenoxy acetic acid, 2,4-	-Kidney -Liver
Dichloropropene, 1,3-	-Carcinogen -Kidney -Nasal
Dimethylphthalate	-Kidney
Dinitrotoluene, 2,6-	-Blood -Carcinogen -Kidney -Mortality -Neurological
Di-n-octylphthalate	-Kidney -Liver
Endosulfan	-Body Weight -Cardiovascular -Kidney
Epichlorohydrin	-Carcinogen -Kidney -Nasal
Ethyl methacrylate	-Kidney
Ethylbenzene	-Developmental -Kidney -Liver
Ethylene glycol	-Kidney
Fluoranthene	-Blood -Kidney -Liver
Hexachloro-1,3-butadiene	-Carcinogen -Kidney
Hexachlorocyclohexane, delta-	-Kidney -Liver
Hexachlorocyclohexane, gamma- [or Lindane]	-Carcinogen -Kidney -Liver
Hexachloroethane	-Carcinogen -Kidney
Methomyl	-Kidney -Spleen
Methyl isobutyl ketone [or MIBK]	-Kidney -Liver
Methyl tert-butyl ether [or MTBE]	-Eye -Kidney -Liver
Methyl-4-chlorophenoxy acetic acid, 2-	-Kidney -Liver
Metribuzin	-Body Weight -Kidney -Liver -Mortality
Nitrobenzene	-Adrenals -Blood -Kidney -Liver
Pentachlorobenzene	-Kidney -Liver
Pentachlorophenol	-Carcinogen -Kidney -Liver
Phenanthrene	-Kidney
Phthalic anhydride	-Kidney -Nasal -Respiratory
Prometryn	-Bone Marrow -Kidney -Liver
Pyrene	-Kidney
Tetrachlorobenzene, 1,2,4,5-	-Kidney
Tetrachloroethane, 1,1,1,2-	-Carcinogen -Kidney -Liver
Tin	-Kidney -Liver
Toluene	-Kidney -Liver -Neurological
Trichlorofluoromethane	-Cardiovascular -Kidney -Mortality -Respiratory
Trichlorophenol, 2,4,5-	-Kidney -Liver
Trichlorophenoxy acetic acid, 2,4,5-	-Kidney
Trichloropropane, 1,2,3-	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Vinyl acetate	-Body Weight -Kidney -Nasal

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Liver	
Acenaphthene	-Liver
Acenaphthylene	-Body Weight -Liver
Acetone	-Kidney -Liver -Neurological
Acetonitrile	-Blood -Liver
Aldrin	-Carcinogen -Liver
Allyl alcohol	-Kidney -Liver
Ametryn	-Liver
Benzenethiol	-Liver
Bis(2-ethylhexyl)phthalate [or DEHP]	-Carcinogen -Liver
Bromoform	-Carcinogen -Liver
Butyl benzyl phthalate, n-	-Liver
Butylate	-Liver
Carbaryl [or Sevin]	-Kidney -Liver
Carbon tetrachloride	-Carcinogen -Liver
Chlordane	-Carcinogen -Liver
Chlorobenzene	-Liver
Chloroform	-Carcinogen -Liver
Choronaphthalene, beta-	-Liver -Respiratory
Chlorpropham	-Bone Marrow -Kidney -Liver -Spleen
DDT, 4,4'-	-Carcinogen -Liver
Dibromochloromethane	-Carcinogen -Liver
Dichlorobenzene, 1,4-	-Carcinogen -Liver
Dichlorodifluoromethane	-Body Weight -Liver
Dichloroethene, 1,1-	-Carcinogen -Liver
Dichloroethene, trans-1,2-	-Blood -Liver
Dichlorophenoxy acetic acid, 2,4-	-Kidney -Liver
Dieldrin	-Carcinogen -Liver
Dimethrin	-Liver
Dimethylformamide, N,N-	-Gastrointestinal -Liver
Dinitrotoluene, 2,4-	-Carcinogen -Liver -Neurological
Di-n-octylphthalate	-Kidney -Liver
Diphenamid	-Liver
Endrin	-Liver
Ethylbenzene	-Developmental -Kidney -Liver
Fluoranthene	-Blood -Kidney -Liver
Fonofos	-Liver -Neurological

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Furfural	-Liver -Nasal
Heptachlor	-Carcinogen -Liver
Heptachlor epoxide	-Carcinogen -Liver
Hexachlorobenzene	-Carcinogen -Liver
Hexachlorocyclohexane, delta-	-Kidney -Liver
Hexachlorocyclohexane, gamma- [or Lindane]	-Carcinogen -Kidney -Liver
Methacrylonitrile	-Liver
Methanol	-Liver -Neurological
Methidathion	-Liver
Methyl acetate	-Liver
Methyl isobutyl ketone [or MIBK]	-Kidney -Liver
Methyl tert-butyl ether [or MTBE]	-Eye -Kidney -Liver
Methyl-4-chlorophenoxy acetic acid, 2-	-Kidney -Liver
Methylene bis(2-chloroaniline), 4,4-	-Carcinogen -Liver -Bladder
Methylene chloride	-Carcinogen -Liver
Metribuzin	-Body Weight -Kidney -Liver -Mortality
Nitrobenzene	-Adrenals -Blood -Kidney -Liver
Pendimethalin	-Liver
Pentachlorobenzene	-Kidney -Liver
Pentachloronitrobenzene	-Carcinogen -Liver
Pentachlorophenol	-Carcinogen -Kidney -Liver
Permethrin	-Liver
Phosmet	-Body Weight -Liver -Neurological
Prometryn	-Bone Marrow -Kidney -Liver
Propachlor	-Body Weight -Liver
Pyridine	-Liver
Ronnel	-Liver
Styrene	-Blood -Liver -Neurological
Terbacil	-Liver -Thyroid
Tetrachloroethane, 1,1,1,2-	-Carcinogen -Kidney -Liver
Tetrachloroethene [or PCE]	-Body Weight -Carcinogen -Liver
Tetrachlorophenol, 2,3,4,6-	-Liver
Tin	-Kidney -Liver
Toluene	-Kidney -Liver -Neurological
Triallate	-Liver -Spleen
Trichloroethane, 1,1,2-	-Carcinogen -Liver
Trichlorophenol, 2,4,5-	-Kidney -Liver

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Trichlorophenoxy propionic acid [or Silvex]	-Liver
Trichloropropane, 1,2,3-	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Trifluralin	-Blood -Carcinogen -Liver
Trinitrotoluene, 2,4,6-	-Carcinogen -Liver
Maternal Death	
Methylphenol, 4- [or p-Cresol]	-Maternal Death -Neurological -Respiratory
Mortality	
Antimony	-Blood -Mortality
Dibutyl phthalate	-Mortality
Dinitrotoluene, 2,6-	-Blood -Carcinogen -Kidney -Mortality -Neurological
Ethyl acetate	-Body Weight -Mortality
Metribuzin	-Body Weight -Kidney -Liver -Mortality
Strychnine	-Mortality
Trichlorofluoromethane	-Cardiovascular -Kidney -Mortality -Respiratory
Trichloropropane, 1,2,3-	-Body Weight -Carcinogen -Kidney -Liver -Mortality
Xylenes, total	-Body Weight -Mortality -Neurological
Nasal	
Acrolein	-Nasal
Acrylonitrile	-Carcinogen -Nasal -Reproductive
Chloro-1,3-butadiene [or Chloroprene]	-Body Weight -Hair Loss -Nasal
Dichloropropane, 1,2-	-Carcinogen -Nasal
Dichloropropene, 1,3-	-Carcinogen -Kidney -Nasal
Epichlorohydrin	-Carcinogen -Kidney -Nasal
Furfural	-Liver -Nasal
Methyl methacrylate	-Nasal
Methylnaphthalene, 1-	-Body Weight -Nasal
Methylnaphthalene, 2-	-Body Weight -Nasal
Naphthalene	-Body Weight -Nasal
Phthalic anhydride	-Kidney -Nasal -Respiratory
Propylene oxide	-Carcinogen -Nasal -Respiratory
Vinyl acetate	-Body Weight -Kidney -Nasal
Neurological	
Acephate	-Carcinogen -Neurological
Acetone	-Kidney -Liver -Neurological
Acrylamide	-Carcinogen -Neurological
Aldicarb [or Temik]	-Neurological

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Benzo(q,h,i)perylene	-Neurological
Butanol, 1-	-Neurological
Calcium cyanide	-Body Weight -Neurological -Thyroid
Carbofuran	-Neurological -Reproductive
Carbon disulfide	-Developmental -Neurological
Carbophenothion [or Trithon]	-Neurological
Chlorine cyanide [or Cyanogen chloride]	-Body Weight -Neurological -Thyroid
Chlorpyrifos	-Neurological
Cobalt	-Cardiovascular -Immunological -Neurological -Reproductive
Coumaphos	-Neurological
Cyanide	-Body Weight -Neurological -Thyroid
Cycloate	-Neurological
Diazinon	-Neurological
Dichlorvos	-Carcinogen -Neurological
Dimethoate	-Neurological
Dimethylphenol, 2,4-	-Blood -Neurological
Dinitrotoluene, 2,4-	-Carcinogen -Liver -Neurological
Dinitrotoluene, 2,6-	-Blood -Carcinogen -Kidney -Mortality -Neurological
Disulfoton	-Neurological
Ethion	-Neurological
Ethoprop	-Neurological
Ethyl p-nitrophenyl phenylphosphorothioate [or	-Neurological
Fenamiphos	-Neurological
Fensulfothion	-Neurological
Fonofos	-Liver -Neurological
Guthion [or Azinphos, methyl]	-Neurological
Hexane, n-	-Neurological
Isobutyl alcohol	-Neurological
Lead	-Neurological
Malathion	-Neurological
Manganese	-Neurological
Mercury	-Neurological
Mercury, methyl	-Neurological
Merphos	-Body Weight -Neurological
Methamidophos	-Neurological
Methanol	-Liver -Neurological
Methyl parathion [or Parathion, methyl]	-Blood -Neurological

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Methylphenol, 2- [or o-Cresol]	-Body Weight -Neurological
Methylphenol, 3- [or m-Cresol]	-Body Weight -Neurological
Methylphenol, 4- [or p-Cresol]	-Maternal Death -Neurological -Respiratory
Mevinphos	-Neurological
Naled	-Neurological
Octamethylpyrophosphoramide	-Neurological
Parathion	-Neurological
Phorate	-Neurological
Phosmet	-Body Weight -Liver -Neurological
Pydrin [or Fenvalerate]	-Neurological
Selenium	-Hair Loss -Neurological -Skin
Styrene	-Blood -Liver -Neurological
Terbufos	-Neurological
Tetraethyl dithiopyrophosphate	-Bone Marrow -Neurological
Thiram	-Neurological
Toluene	-Kidney -Liver -Neurological
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 1]	-Body Weight -Neurological
Xylenes, total	-Body Weight -Mortality -Neurological

None Specified

Acetophenone	-None Specified
Anthracene	-None Specified
Benzoic acid	-None Specified
Bromochloromethane	-None Specified
Butylphthalyl butylglycolate	-None Specified
Chlorophenol, 3-	-None Specified
Chlorophenol, 4-	-None Specified
Chlorotoluene, p-	-None Specified
Cyanogen	-None Specified
Dibenzofuran	-None Specified
Dichloroacetic acid	-None Specified
Dichloroacetonitrile	-None Specified
Dichlorobenzene, 1,3-	-None Specified
Dichlorophenol, 2,3-	-None Specified
Dichlorophenol, 2,5-	-None Specified
Dichlorophenol, 2,6-	-None Specified
Dichlorophenol, 3,4-	-None Specified
Dichlorprop	-None Specified

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Fluometuron	-None Specified
Hexanone, 2- [or Methyl butyl ketone]	-None Specified
Lithium	-None Specified
Methyl acrylate	-None Specified
Nitrophenol, 4-	-None Specified
Prometon	-None Specified
Trichloroacetic acid	-None Specified
Trichlorobenzene, 1,3,5-	-None Specified
Trichloroethane, 1,1,1- [or Methyl chloroform]	-None Specified
Trimethylbenzene, 1,2,3-	-None Specified
Trimethylbenzene, 1,2,4-	-None Specified
Trimethylbenzene, 1,3,5-	-None Specified
Uranium, natural	-None Specified
Vanadium	-None Specified

Reproductive

Acrylonitrile	-Carcinogen -Nasal -Reproductive
Boron	-Reproductive -Respiratory
Carbofuran	-Neurological -Reproductive
Chlorophenol, 2-	-Reproductive
Cobalt	-Cardiovascular -Immunological -Neurological -Reproductive
Dibromo-3-chloropropane, 1,2- [or DBCP]	-Carcinogen -Reproductive
Dibromoethane, 1,2- [or EDB]	-Carcinogen -Reproductive
Ethoxyethanol, 2-	-Body Weight -Reproductive
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	-Carcinogen -Reproductive
Methoxychlor	-Developmental -Reproductive
Molinate	-Reproductive
Resmethrin	-Reproductive

Respiratory

Ammonia	-Respiratory
Ammonia (as total)	-Respiratory
Beryllium	-Carcinogen -Gastrointestinal -Respiratory
Boron	-Reproductive -Respiratory
Chloronaphthalene, beta-	-Liver -Respiratory
Chromium (hexavalent)	-Carcinogen -Respiratory
Methylphenol, 4- [or p-Cresol]	-Maternal Death -Neurological -Respiratory
Paraquat	-Respiratory

Table 6
Chemicals Sorted by Target Organ

Contaminant	Target Organ/System or Effect
Phthalic anhydride	-Kidney -Nasal -Respiratory
Propylene oxide	-Carcinogen -Nasal -Respiratory
Trichlorofluoromethane	-Cardiovascular -Kidney -Mortality -Respiratory
Skin	
Arsenic	-Carcinogen -Cardiovascular -Skin
Selenium	-Hair Loss -Neurological -Skin
Silver	-Skin
Spleen	
Chloroaniline, 4-	-Spleen
Chlorpropham	-Bone Marrow -Kidney -Liver -Spleen
Dinitrobenzene, 1,2- (o)	-Spleen
Dinitrobenzene, 1,3- (m)	-Spleen
Methomyl	-Kidney -Spleen
Nitrotoluene, m-	-Spleen
Nitrotoluene, o-	-Spleen
Nitrotoluene, p-	-Spleen
Propanil	-Spleen
Triallate	-Liver -Spleen
Trinitrobenzene, 1,3,5-	-Blood -Spleen
Thyroid	
Calcium cyanide	-Body Weight -Neurological -Thyroid
Chlorine cyanide [or Cyanogen chloride]	-Body Weight -Neurological -Thyroid
Cyanide	-Body Weight -Neurological -Thyroid
Maneb	-Thyroid
Terbacil	-Liver -Thyroid
Zineb	-Thyroid
Other	
Fluoride	-Teeth
Methylene bis(2-chloroaniline), 4,4-	-Carcinogen -Liver -Bladder
Molybdenum	-Gout
Phenylenediamine, p-	-Whole Body
Strontium	-Bone
TRPH	-Multiple Endpoints Mixed Contaminants

Table 7
Contaminant Name and CAS# Cross Reference

Alternative Contaminant Name	Chapter 24 Contaminant Name	CAS #
Ally	Metsulfuron, methyl [or Ally]	74223-64-6
Azinphos, methyl	Guthion [or Azinphos, methyl]	86-50-0
Baygon	Propoxur [or Baygon]	114-26-1
Betanal	Phenmedipham [or Betanal]	13684-63-4
BHC	Hexachlorocyclohexane [technical or BHC]	608-73-1
Bis(2-chloro-1-metyleethyl)ether	Bis(2-chloroisopropyl)ether	108-60-1
Blazer	Acifluorfen, sodium [or Blazer]	62476-59-9
Bravo	Chlorothalonil [or Bravo]	1897-45-6
CFC 113	Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	76-13-1
Chloro-3-methylphenol, 4-	Chloro-m-cresol, p- [or 4-chloro-3-methylphenol]	59-50-7
Chloroprene	Chloro-1,3-butadiene [or Chloroprene]	126-99-8
Cresol, m-	Methylphenol, 3- [or m-Cresol]	108-39-4
Cresol, p-	Methylphenol, 4- [or p-Cresol]	106-44-5
Cresol,o-	Methylphenol, 2- [or o-Cresol]	95-48-7
Cyanogen chloride	Chlorine cyanide [or Cyanogen chloride]	506-77-4
DB, 2,4-	Dichlorophenoxy butyric acid, 2,4- [or 2,4-DB]	94-82-6
DBCP	Dibromo-3-chloropropane, 1-2- [or DBCP]	96-12-8
DCPA	Dacthal [or DCPA]	1861-32-1
DEHP	Bis(2-ethylhexyl)phthalate [or DEHP]	117-81-7
Dicrotaphos	Bidrin [or Dicrotaphos]	141-66-2
Diphenyl	Biphenyl, 1,1- [or Diphenyl]	92-52-4
Dyrene	Anilazine [or Dyrene]	101-05-3
EDB	Dibromoethane, 1,2- [or EDB]	106-93-4
EDC	Dichloroethane, 1,2- [or EDC]	107-06-2
EPEG	Ethylphthalyl ethylglycolate [or EPEG]	84-72-0
EPN	Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]	2104-64-5
EPTC	Ethyl dipropylthiocarbamate, S- [or EPTC]	759-94-4
Ethyl chloride	Chloroethane [or Ethyl chloride]	75-00-3
ETU	Ethylene thiourea [or ETU]	96-45-7
Fenvalerate	Pydrin [or Fenvalerate]	51630-58-1
HMX	Octahydro-1,3,5,7-tetranitro-tetrazocine [or HMX]	2691-41-0
Isopropyl benzene	Cumene [or Isopropyl benzene]	98-82-8
Karate	Cyhalothrin, lambda [or Karate]	68085-85-8
Kelthane	Dicofol [or Kelthane]	115-32-2
Lindane	Hexachlorocyclohexane, gamma- [or Lindane]	58-89-9
MEK	Butanone, 2- [or MEK]	78-93-3
Methyl bromide	Bromomethane [or Methyl bromide]	74-83-9
Methyl butyl ketone	Hexanone, 2- [or Methyl butyl ketone]	591-78-6
Methyl chloroform	Trichloroethane, 1,1,1- [or Methyl chloroform]	71-55-6
MIBK	Methyl isobutyl ketone [or MIBK]	108-10-1
MTBE	Methyl tert-butyl ether [or MTBE]	1634-04-4
Parathion, methyl-	Methyl parathion [or Parathion, methyl]	298-00-0
PCBs	PCBs [Aroclor mixture]	1336-36-3
PCE	Tetrachloroethene [or PCE]	127-18-4
RDX	Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	121-82-4
Roundup	Glyphosate [or Roundup]	1071-83-6
Sevin	Carbaryl [or Sevin]	63-25-2
Silvex	Trichlorophenoxy propionic acid [or Silvex]	93-72-1
TCDD, 2,3,7,8-	Dioxin [or 2,3,7,8-TCDD]	1746-01-6
TCE	Trichloroethene [or TCE]	79-01-6
TDS	Total dissolved solids [or TDS]	C-010
Temik	Aldicarb [or Temik]	116-06-3
Trithion	Carbophenothion [or Trithion]	786-19-6

Table 8
Soil Saturation (C_{sat}) Limits

Contaminant	CAS #	C_{sat} (mg/kg)
Acetone	67-64-1	100000
Acetonitrile	75-05-8	100000
Acetophenone	98-86-2	2100
Acrolein	107-02-8	23000
Acrylonitrile	107-13-1	8200
Allyl alcohol	107-18-6	110000
Ammonia	7664-41-7	5300000
Ammonia (as total)	7664-41-7	5300000
Aniline	62-53-3	5500
Benzaldehyde	100-52-7	1600
Benzene	71-43-2	870
Benzenethiol	108-98-5	1300
Benzotrichloride	98-08-7	730
Benzyl alcohol	100-51-6	7000
Benzyl chloride	100-44-7	620
Bidrin [or Dicrotophos]	141-66-2	540000
Bis(2-chloroethyl)ether	111-44-4	3300
Bis(2-chloroisopropyl)ether	108-60-1	710
Bis(2-ethylhexyl)phthalate [or DEHP]	117-81-7	31000
Bromochloromethane	74-97-5	7300
Bromodichloromethane	75-27-4	3000
Bromoform	75-25-2	1900
Bromomethane [or Methyl bromide]	74-83-9	3200
Butanol, 1-	71-36-3	11000
Butanone, 2- [or MEK]	78-93-3	25000
Butyl benzyl phthalate, n-	85-68-7	890
Butylate	2008-41-5	75
Butylphthalyl butylglycolate	85-70-1	11000
Carbon disulfide	75-15-0	730
Carbon tetrachloride	56-23-5	1100
Carbophenothon [or Trithion]	786-19-6	80
Chlorine	7782-50-5	N/A
Chlorine cyanide [or Cyanogen chloride]	506-77-4	2500000
Chloro-1,3-butadiene [or Chloroprene]	126-99-8	1800
Chlorobenzene	108-90-7	680
Chloroethane [or Ethyl chloride]	75-00-3	1500
Chloroform	67-66-3	2900
Chloromethane	74-87-3	1100

N/A- C_{sat} only applicable for compounds liquid at ambient temperature (melting points > 25C)

Contaminant	CAS #	Csat (mg/kg)
Chlorophenol, 2-	95-57-8	53000
Chlorotoluene, o-	95-49-8	920
Chlorotoluene, p-	106-43-4	230
Crotonaldehyde	123-73-9	21000
Cumene [or Isopropyl benzene]	98-82-8	1800
Cyanogen	460-19-5	250000
Cycloate	1134-23-2	180
Cyclohexanone	108-94-1	700
Cymene, p	99-87-6	570
Diazinon	333-41-5	130
Dibromo-3-chloropropane, 1-2- [or DBCP]	96-12-8	750
Dibromochloromethane	124-48-1	1300
Dibromoethane, 1,2- [or EDB]	106-93-4	1500
Diethyl phthalate	84-74-2	110
Dichloroacetic acid	79-43-6	550000
Dichloroacetonitrile	3018-12-0	N/A
Dichlorobenzene, 1,2-	95-50-1	590
Dichlorobenzene, 1,3-	541-73-1	600
Dichlorodifluoromethane	75-71-8	880
Dichloroethane, 1,1-	75-34-3	1700
Dichloroethane, 1,2- [or EDC]	107-06-2	1800
Dichloroethene, 1,1-	75-35-4	1500
Dichloroethene, cis-1,2-	156-59-2	1200
Dichloroethene, trans-1,2-	156-60-5	3100
Dichloropropane, 1,2-	78-87-5	1100
Dichloropropene, 1,3-	542-75-6	1400
Dichlorvos	62-73-7	2100
Diethylphthalate	84-66-2	2000
Dimethrin	70-38-2	6.5
Dimethylformamide, N,N-	68-12-2	140000
Dimethylphenol, 2,4-	105-67-9	11000
Dimethylphthalate	131-11-3	1200
Dioxane, 1,4-	123-91-1	100000
Disulfoton	298-04-4	780
Epichlorohydrin	106-89-8	55000
Ethion	563-12-2	44
Ethoprop	13194-48-4	500
Ethoxyethanol, 2-	110-80-5	200000
Ethyl acetate	141-78-6	10000
Ethyl acrylate	140-88-5	3500

N/A - Csat only applicable for compounds liquid at ambient temperature (melting points > 25C)

Contaminant	CAS #	Csat (mg/kg)
Ethyl dipropylthiocarbamate, S- [or EPTC]	759-94-4	3300
Ethyl ether	60-29-7	22000
Ethyl methacrylate	97-63-2	1200
Ethylbenzene	100-41-4	400
Ethylene diamine	107-15-3	100000
Ethylene glycol	107-21-1	100000
Ethylene oxide	75-21-8	200000
Fluoride	7782-41-4	N/A
Fonofos	944-22-9	54
Formaldehyde	50-00-0	58000
Furfural	98-01-1	13000
Hexachloro-1,3-butadiene	87-68-3	1100
Hexachlorocyclopentadiene	77-47-4	2200
Hexane, n-	110-54-3	640
Hexanone, 2- [or Methyl butyl ketone]	591-78-6	4200
Isobutyl alcohol	78-83-1	11000
Isophorone	78-59-1	4600
Malathion	121-75-5	570
Mercury	7439-97-6	2.9
Mercury, methyl	22967-92-6	N/A
Methacrylonitrile	126-98-7	3100
Methanol	67-56-1	100000
Methyl acetate	79-20-9	69000
Methyl acrylate	96-33-3	9400
Methyl isobutyl ketone [or MIBK]	108-10-1	3600
Methyl methacrylate	80-62-6	3600
Methyl tert-butyl ether [or MTBE]	1634-04-4	8800
Methylaniline, 2-	95-53-4	7600
Methylene bromide	74-95-3	2900
Methylene chloride	75-09-2	2400
Methylnaphthalene, 1-	90-12-0	410
Methylphenol, 3- [or m-Cresol]	108-39-4	14000
Metolachlor	51218-45-2	610
Mevinphos	7786-34-7	240000
Molinate	2212-67-1	670
Nitrobenzene	98-95-3	1000
Nitroglycerin	55-63-0	2100
Nitroso-diethylamine, N-	55-18-5	11000
Nitroso-dimethylamine, N-	62-75-9	100000
Nitroso-di-n-butylamine, N-	924-16-3	1900

N/A- Csat only applicable for compounds liquid at ambient temperature (melting points > 25C)

Contaminant	CAS #	Csat (mg/kg)
Nitroso-di-n-propylamine, N-	621-64-7	8900
Nitroso-N-methylethylamine, N-	10595-95-6	2100
Nitrotoluene, m-	99-08-1	480
Nitrotoluene, o-	88-72-2	930
Octamethylpyrophosphoramide	152-16-9	100000
Parathion	56-38-2	240
Pebulate	1114-71-2	190
Phorate	298-02-2	1700
Propylene glycol	57-55-6	100000
Propylene oxide	75-56-9	80000
Pyridine	110-86-1	130000
Styrene	100-42-5	1500
Terbufos	13071-79-9	220
Tetrachloroethane, 1,1,1,2-	630-20-6	1100
Tetrachloroethane, 1,1,2,2-	79-34-5	2000
Tetrachloroethene [or PCE]	127-18-4	230
Toluene	108-88-3	650
Tributyltin oxide	56-35-9	4900
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	76-13-1	1000
Trichlorobenzene, 1,2,4-	120-82-1	370
Trichloroethane, 1,1,1- [or Methyl chloroform]	71-55-6	1200
Trichloroethane, 1,1,2-	79-00-5	1800
Trichloroethylene [or TCE]	79-01-6	1300
Trichlorofluoromethane	75-69-4	1700
Trichloropropane, 1,2,3-	96-18-4	940
Trimethyl phosphate	512-56-1	69000
Trimethylbenzene, 1,2,3-	526-73-8	250
Trimethylbenzene, 1,2,4-	95-63-6	250
Trimethylbenzene, 1,3,5-	108-67-8	130
Vernam	1929-77-7	170
Vinyl acetate	108-05-4	2700
Vinyl chloride	75-01-4	1200
Xylenes, total	1330-20-7	140